

## Preaward Compliance Review Report for All Applicants and Recipients Requesting EPA Financial Assistance

Note: Read Instructions before completing form.

### I. A. Applicant/Recipient (Name, Address, City, State, Zip Code)

Name:

Address:

City:

State:  Zip Code:

B. DUNS No.

II. Is the applicant currently receiving EPA Assistance? ☐ Yes ☒ No

III. List all civil rights lawsuits and administrative complaints pending against the applicant/recipient that allege discrimination based on race, color, national origin, sex, age, or disability. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

1. Ezra Southward vs. City of Jersey City  
2. Alita Carter, Daniel Ali, Frank Gilmore, Emerlyn Deline vs. City of Jersey City  
3. Jonathan Hernandez vs. City of Jersey City, Jersey City Police Department  
4. Joseph Napolitano vs. City of Jersey City, Department of Recreation  
5. Alexander Dougherty vs. City of Jersey City  
6. Joseph Drayton vs. City of Jersey City  
7. Joseph Drayton vs. City of Jersey City  
8. Devon Reed vs. City of Jersey City, Jersey City Police Department  
9. Pierre Lindor vs. City of Jersey City, Jersey City Police Department

IV. List all civil rights lawsuits and administrative complaints decided against the applicant/recipient within the last year that allege discrimination based on race, color, national origin, sex, age, or disability and enclose a copy of all decisions. Please describe all corrective actions taken. (Do not include employment complaints not covered by 40 C.F.R. Parts 5 and 7.)

N/A

V. List all civil rights compliance reviews of the applicant/recipient conducted by any agency within the last two years and enclose a copy of the review and any decisions, orders, or agreements based on the review. Please describe any corrective action taken. (40 C.F.R. § 7.80(c)(3))

The dismissal letter of the Nye vs. City of Jersey City is attached in the optional narrative section of this application.

VI. Is the applicant requesting EPA assistance for new construction? If no, proceed to VII; if yes, answer (a) and/or (b) below.

☐ Yes ☒ No

a. If the grant is for new construction, will all new facilities or alterations to existing facilities be designed and constructed to be readily accessible to and usable by persons with disabilities? If yes, proceed to VII; if no, proceed to VI(b).

☐ Yes ☐ No

b. If the grant is for new construction and the new facilities or alterations to existing facilities will not be readily accessible to and usable by persons with disabilities, explain how a regulatory exception (40 C.F.R. 7.70) applies.

VII. Does the applicant/recipient provide initial and continuing notice that it does not discriminate on the basis of race, color, national origin, sex, age, or disability in its program or activities? (40 C.F.R. 5.140 and 7.95)

☒ Yes ☐ No

a. Do the methods of notice accommodate those with impaired vision or hearing?

☒ Yes ☐ No

b. Is the notice posted in a prominent place in the applicant's offices or facilities or, for education programs and activities, in appropriate periodicals and other written communications?

☒ Yes ☐ No

c. Does the notice identify a designated civil rights coordinator?

☒ Yes ☐ No

- VIII. Does the applicant/recipient maintain demographic data on the race, color, national origin, sex, age, or handicap of the population it serves? (40 C.F.R. 7.85(a)) ☒ Yes ☐ No
- IX. Does the applicant/recipient have a policy/procedure for providing access to services for persons with limited English proficiency? (40 C.F.R. Part 7, E.O. 13166) ☒ Yes ☐ No
- X. If the applicant is an education program or activity, or has 15 or more employees, has it designated an employee to coordinate its compliance with 40 C.F.R. Parts 5 and 7? Provide the name, title, position, mailing address, e-mail address, fax number, and telephone number of the designated coordinator.

N/A

- XI. If the applicant is an education program or activity, or has 15 or more employees, has it adopted grievance procedures that assure the prompt and fair resolution of complaints that allege a violation of 40 C.F.R. Parts 5 and 7? Provide a legal citation or Internet Address for, or a copy of, the procedures.

N/A

**For the Applicant/Recipient**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. I assure that I will fully comply with all applicable civil rights statutes and EPA regulations.

A. Signature of Authorized Official

Chris Sprague

B. Title of Authorized Official

Business Administrator

C. Date

03/22/2022

**For the U.S. Environmental Protection Agency**

I have reviewed the information provided by the applicant/recipient and hereby certify that the applicant/recipient has submitted all preaward compliance information required by 40 C.F.R. Parts 5 and 7; that based on the information submitted, this application satisfies the preaward provisions of 40 C.F.R. Parts 5 and 7; and that the applicant has given assurance that it will fully comply with all applicable civil rights statutes and EPA regulations.

A. \*Signature of Authorized EPA Official

B. Title of Authorized Official

C. Date

**\* See Instructions**

Instructions for EPA FORM 4700-4 (Rev. 06/2014)

General. Recipients of Federal financial assistance from the U.S. Environmental Protection Agency must comply with the following statutes and regulations.

Title VI of the Civil Rights Acts of 1964 provides that no person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. The Act goes on to explain that the statute shall not be construed to authorize action with respect to any employment practice of any employer, employment agency, or labor organization (except where the primary objective of the Federal financial assistance is to provide employment). Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act provides that no person in the United States shall on the ground of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under the Federal Water Pollution Control Act, as amended. Employment discrimination on the basis of sex is prohibited in all such programs or activities. Section 504 of the Rehabilitation Act of 1973 provides that no otherwise qualified individual with a disability in the United States shall solely by reason of disability be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. Employment discrimination on the basis of disability is prohibited in all such programs or activities. The Age Discrimination Act of 1975 provides that no person on the basis of age shall be excluded from participation under any program or activity receiving Federal financial assistance. Employment discrimination is not covered. Age discrimination in employment is prohibited by the Age Discrimination in Employment Act administered by the Equal Employment Opportunity Commission. Title IX of the Education Amendments of 1972 provides that no person in the United States on the basis of sex shall be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance. Employment discrimination on the basis of sex is prohibited in all such education programs or activities. Note: an education program or activity is not limited to only those conducted by a formal institution. 40 C.F.R. Part 5 implements Title IX of the Education Amendments of 1972. 40 C.F.R. Part 7 implements Title VI of the Civil Rights Act of 1964, Section 13 of the 1972 Amendments to the Federal Water Pollution Control Act, and Section 504 of The Rehabilitation Act of 1973. The Executive Order 13166 (E.O. 13166) entitled; "Improving Access to Services for Persons with Limited English Proficiency" requires Federal agencies work to ensure that recipients of Federal financial assistance provide meaningful access to their LEP applicants and beneficiaries.

Items "Applicant" means any entity that files an application or unsolicited proposal or otherwise requests EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Recipient" means any entity, other than applicant, which will actually receive EPA assistance. 40 C.F.R. §§ 5.105, 7.25. "Civil rights lawsuits and administrative complaints" means any lawsuit or administrative complaint alleging discrimination on the basis of race, color, national origin, sex, age, or disability pending or decided against the applicant and/or entity which actually benefits from the grant, but excluding employment complaints not covered by 40 C.F.R. Parts 5 and 7. For example, if a city is the named applicant but the grant will actually benefit the Department of Sewage, civil rights lawsuits involving both the city and the Department of Sewage should be listed. "Civil rights compliance review" means any review assessing the applicant's and/or recipient's compliance with laws prohibiting discrimination on the basis of race, color, national origin, sex, age, or disability. Submit this form with the original and required copies of applications, requests for extensions, requests for increase of funds, etc. Updates of information are all that are required after the initial application submission. If any item is not relevant to the project for which assistance is requested, write "NA" for "Not Applicable." In the event applicant is uncertain about how to answer any questions, EPA program officials should be contacted for clarification. \* Note: Signature appears in the Approval Section of the EPA Comprehensive Administrative Review For Grants/Cooperative Agreements & Continuation/Supplemental Awards form.



# EPA KEY CONTACTS FORM

OMB Number: 2030-0020  
Expiration Date: 06/30/2024

**Authorized Representative:** *Original awards and amendments will be sent to this individual for review and acceptance, unless otherwise indicated.*

<b>Name:</b>	<b>Prefix:</b>	<b>First Name:</b>	<b>Middle Name:</b>
		John	
	<b>Last Name:</b>		<b>Suffix:</b>
	Metro		
<b>Title:</b>	Business Administrator		
<b>Complete Address:</b>			
<b>Street1:</b>	280 Grove Street		
<b>Street2:</b>			
<b>City:</b>	Jersey City	<b>State:</b>	NJ: New Jersey
<b>Zip / Postal Code:</b>	07302	<b>Country:</b>	USA: UNITED STATES
<b>Phone Number:</b>	201-547-5036	<b>Fax Number:</b>	
<b>E-mail Address:</b>	jmetro@jcnj.org		

**Payee:** *Individual authorized to accept payments.*

<b>Name:</b>	<b>Prefix:</b>	<b>First Name:</b>	<b>Middle Name:</b>
		Margret	
	<b>Last Name:</b>		<b>Suffix:</b>
	DeVico		
<b>Title:</b>	Administrative Analyst		
<b>Complete Address:</b>			
<b>Street1:</b>	1 Jackson Square		
<b>Street2:</b>			
<b>City:</b>	Jersey City	<b>State:</b>	NJ: New Jersey
<b>Zip / Postal Code:</b>	07305	<b>Country:</b>	USA: UNITED STATES
<b>Phone Number:</b>	201-547-5278	<b>Fax Number:</b>	
<b>E-mail Address:</b>	MDeVico@jcnj.org		

**Administrative Contact:** *Individual from Sponsored Programs Office to contact concerning administrative matters (i.e., indirect cost rate computation, rebudgeting requests etc).*

<b>Name:</b>	<b>Prefix:</b>	<b>First Name:</b>	<b>Middle Name:</b>
	Dr.	Alex	
	<b>Last Name:</b>		<b>Suffix:</b>
	Mirescu		
<b>Title:</b>	Healthy Cities and Communities Policy Fellow		
<b>Complete Address:</b>			
<b>Street1:</b>	1 Jackson Square		
<b>Street2:</b>			
<b>City:</b>	Jersey City	<b>State:</b>	NJ: New Jersey
<b>Zip / Postal Code:</b>	07305	<b>Country:</b>	USA: UNITED STATES
<b>Phone Number:</b>	201-232-8125	<b>Fax Number:</b>	
<b>E-mail Address:</b>	AMirescu@jcnj.org		

# EPA KEY CONTACTS FORM

**Project Manager:** *Individual responsible for the technical completion of the proposed work.*

**Name:** **Prefix:**  **First Name:**  **Middle Name:**

**Last Name:**  **Suffix:**

**Title:**

**Complete Address:**

**Street1:**

**Street2:**

**City:**

**State:**

**Zip / Postal Code:**

**Country:**

**Phone Number:**

**Fax Number:**

**E-mail Address:**

## Other Attachment File(s)

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\* Mandatory Other Attachment Filename:

[Add Mandatory Other Attachment](#)

[Delete Mandatory Other Attachment](#)

[View Mandatory Other Attachment](#)

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To add more "Other Attachment" attachments, please use the attachment buttons below.

[Add Optional Other Attachment](#)

[Delete Optional Other Attachment](#)

[View Optional Other Attachment](#)

## Project Narrative File(s)

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\* **Mandatory Project Narrative File Filename:**

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To add more Project Narrative File attachments, please use the attachment buttons below.

# BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006  
Expiration Date: 02/28/2022

## SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Year 1		\$	\$	155,083.31	4,569.66	159,652.97
2. Year 2				155,083.31	4,569.66	159,652.97
3. Year 3				155,083.31	4,569.66	159,652.97
4.						
5. Totals		\$	\$	465,249.93	13,708.98	478,958.91

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# SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) Year 1	(2) Year 2	(3) Year 3	(4)	
a. Personnel	\$ 72,775.33	\$ 72,775.33	\$ 72,775.33	\$	\$ 218,325.99
b. Fringe Benefits	7,178.33	7,178.33	7,178.33		21,534.99
c. Travel	718.33	718.33	718.33		2,154.99
d. Equipment	15,187.66	15,187.66	15,187.66		45,562.98
e. Supplies	3,000.00	3,000.00	3,000.00		9,000.00
f. Contractual	8,283.33	8,283.33	8,283.33		24,849.99
g. Construction					
h. Other	32,874.00	32,874.00	32,874.00		98,622.00
i. Total Direct Charges (sum of 6a-6h)	140,016.98	140,016.98	140,016.98		\$ 420,050.94
j. Indirect Charges	15,066.33	15,066.33	15,066.33		\$ 45,198.99
k. TOTALS (sum of 6i and 6j)	\$ 155,083.31	\$ 155,083.31	\$ 155,083.31	\$	\$ 465,249.93
7. Program Income	\$	\$	\$	\$	\$

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SECTION C - NON-FEDERAL RESOURCES					
(a) Grant Program		(b) Applicant	(c) State	(d) Other Sources	(e)TOTALS
8.	Year 1	\$ 4,569.66	\$	\$	\$ 4,569.66
9.	Year 2	4,569.66			4,569.66
10.	Year 3	4,569.66			4,569.66
11.					
12. TOTAL (sum of lines 8-11)		\$ 13,708.98	\$	\$	\$ 13,708.98

SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 155,083.31	\$ 38,770.83	\$ 38,770.83	\$ 38,770.83	\$ 38,770.82
14. Non-Federal	\$				
15. TOTAL (sum of lines 13 and 14)	\$ 155,083.31	\$ 38,770.83	\$ 38,770.83	\$ 38,770.83	\$ 38,770.82

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT					
(a) Grant Program		FUTURE FUNDING PERIODS (YEARS)			
		(b)First	(c) Second	(d) Third	(e) Fourth
16.	Year 1	\$ 38,770.83	\$ 38,770.83	\$ 38,770.83	\$ 38,770.82
17.	Year 2	38,770.83	38,770.83	38,770.83	38,770.82
18.	Year 3	38,770.83	38,770.83	38,770.83	38,770.82
19.					
20. TOTAL (sum of lines 16 - 19)		\$ 116,312.49	\$ 116,312.49	\$ 116,312.49	\$ 116,312.46

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges:	420,050.94
22. Indirect Charges:	45,198.99
23. Remarks: Please note that Section E accounts all three project years in the project period.	

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## Application for Federal Assistance SF-424

\* 1. Type of Submission:

- ☐ Preapplication  
☒ Application  
☐ Changed/Corrected Application

\* 2. Type of Application:

- ☒ New  
☐ Continuation  
☐ Revision

\* If Revision, select appropriate letter(s):

\* Other (Specify):

\* 3. Date Received:

03/22/2022

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

\* a. Legal Name:

City of Jersey City

\* b. Employer/Taxpayer Identification Number (EIN/TIN):

22-6002013

\* c. Organizational DUNS:

8314382750000

d. Address:

\* Street1:

280 Grove Street

Street2:

\* City:

Jersey City

County/Parish:

Hudson

\* State:

NJ: New Jersey

Province:

\* Country:

USA: UNITED STATES

\* Zip / Postal Code:

07302-3610

e. Organizational Unit:

Department Name:

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

\* First Name:

Stacey

Middle Name:

\* Last Name:

Flanagan

Suffix:

Title: Director of Health and Human Services

Organizational Affiliation:

City of Jersey City

\* Telephone Number:

201-547-6560

Fax Number:

\* Email:

sflanagan@jcnj.org

## Application for Federal Assistance SF-424

### \* 9. Type of Applicant 1: Select Applicant Type:

C: City or Township Government

### Type of Applicant 2: Select Applicant Type:

### Type of Applicant 3: Select Applicant Type:

### \* Other (specify):

### \* 10. Name of Federal Agency:

Environmental Protection Agency

### 11. Catalog of Federal Domestic Assistance Number:

66.034

### CFDA Title:

Surveys, Studies, Research, Investigations, Demonstrations, and Special Purpose Activities  
Relating to the Clean Air Act

### \* 12. Funding Opportunity Number:

EPA-OAR-OAQPS-22-01

### \* Title:

Enhanced Air Quality Monitoring for Communities

### 13. Competition Identification Number:

### Title:

### 14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment

Delete Attachment

View Attachment

### \* 15. Descriptive Title of Applicant's Project:

US EPA Community Air Quality Monitoring for Ozone and Particulate Matter Air Pollution in Jersey  
City's Underserved Communities

Attach supporting documents as specified in agency instructions.

Add Attachments

Delete Attachments

View Attachments

**Application for Federal Assistance SF-424****16. Congressional Districts Of:**\* a. Applicant \* b. Program/Project 

Attach an additional list of Program/Project Congressional Districts if needed.

**17. Proposed Project:**\* a. Start Date: \* b. End Date: **18. Estimated Funding (\$):**

* a. Federal	<input type="text" value="465,249.93"/>
* b. Applicant	<input type="text" value="13,708.98"/>
* c. State	<input type="text" value="0.00"/>
* d. Local	<input type="text" value="0.00"/>
* e. Other	<input type="text" value="0.00"/>
* f. Program Income	<input type="text" value="0.00"/>
* g. TOTAL	<input type="text" value="478,958.91"/>

**\* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

- ☐ a. This application was made available to the State under the Executive Order 12372 Process for review on
- ☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- ☒ c. Program is not covered by E.O. 12372.

**\* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**☐ Yes ☒ No

If "Yes", provide explanation and attach

**21. \*By signing this application, I certify (1) to the statements contained in the list of certifications\*\* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances\*\* and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ \*\* I AGREE

\*\* The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

**Authorized Representative:**

Prefix:  \* First Name:

Middle Name:

\* Last Name:

Suffix:

\* Title: \* Telephone Number:  Fax Number: \* Email: \* Signature of Authorized Representative:  \* Date Signed:

**Attachment: Quality Assurance Project Plan (2 page limit)**

Mr. Petherbridge will be responsible for development of the final QAPP and assuring adherence to the document requirements. Mr. Petherbridge was an environmental consultant on air quality and permitting issues to many industrial clients, community development projects, and hazardous waste site cleanups, for over 20 years. Mr. Petherbridge was responsible for managing ambient air quality monitoring systems for a major NY utility, a DOE peat gasification siting study in MN, ambient air monitoring for Porte Liberte and Newport City Jersey City developments, including CEMS operations and indoor air quality testing for asbestos abatement and air toxics exposure, and real-time ambient air toxics monitoring for worker exposure. Mr. Petherbridge designed the QAPP for each of these monitoring systems and conducted audits or set up independent auditing programs to comply with agency requirements.

The NJDEP has agreed to partner with SJC to provide assistance with the QAPP. The QAPP will cover general QA procedures for equipment siting, installation, calibration, chain-of-custody, data completeness, and routine equipment operation, inspection and maintenance. A final QAPP plan will be prepared and submitted for agency approval that includes equipment vendor specific requirements. The air monitoring network will analyze: ozone ( $O_3$ ), nitrogen dioxide ( $NO_2$ ), and particulate matter ( $PM_{2.5}$ ). The instruments will be comparable to EPA reference or equivalent methods (FRM/FEM) based on EPA laboratory or field testing showing high correlation to (FRM) or through co-location at the New Jersey Department of Environmental Protection (NJDEP) Newark Firehouse Station for direct comparison to the NJDEP's FRM/FEM sensors for up to a 3 month period to test for correlation. In place of field calibration, all sensors within the network will be checked monthly and if significant drift has occurred will be adjusted by applying gain and offsets to the instrument settings to produce an accurate concentration. The method uses linear regression to calculate new slope and intercepts to adjust sensor calibration remotely. Once the sensor drift exceeds predetermined limits indicating that the sensors are reaching specification levels, the sensors will be replaced with new sensors (12-15 mos).

All operating procedures will be conducted in accordance with vendor specifications and Standard Operating Procedures (SOP) to include: routine operation and maintenance, calibration, troubleshooting, and data management (including minimum data capture rates). Because the proposed monitoring equipment is calibrated by the supplier prior to shipment for field installation, then proper handling, installation, and operation of the equipment must follow vendor specifications to ensure the equipment operates within their specifications. All calibration, shipping, receiving, installation, testing and routine maintenance steps will be recorded in an equipment log book (electronic format). In transporting equipment, precautions will be taken to eliminate the possibility of tampering, accidental destruction, and/or physical and chemical re-action. All equipment will be installed in accordance with the vendor specifications and field technicians will be trained in the proper handling and operation of the specific equipment. A Chain of Custody policy will be outlined to guarantee the identity and integrity of sampling equipment and associated data from vendor calibration, through sample collection and analysis, and final data storage and reporting.

To avoid obstruction to air flow, monitors will be placed away from obstructions such as trees, buildings, and fences. This will ensure that air flow around the monitor will be representative of the general air flow in the area, thus preventing sampling bias. Detailed inspection of each potential monitoring location will be performed to ensure minimal obstruction to the monitoring location from structures within a 360 degree radius (verified by photographs showing visual view in each cardinal direction (N, E, S, W)),

including identification of any potential air pollution sources in and around the potential monitoring site. To avoid turbulent air mixing that can kick up ground dust or tree pollen, monitors will not be sited near unpaved roadways, in parking lots, or under trees or immediately adjacent to similar sources that could bias samples. Clearance from potential factors that may bias the data quality are outlined in Table 7-2 (EPA QA Handbook). To prevent direct influence from nearby roadways, enclosures will be located in accordance with Table 7-3 for gaseous pollutants and Figure 7.5 for particulates (EPA QA Handbook). Additional requirements are outlined in the EPA Air Sensor Toolbox.

The air monitoring enclosures will be designed for functionality and ease of access for operation, maintenance and repair, at a height within the breathing zone. In addition, the enclosures will be constructed out of weather resistant and waterproof materials that can withstand extreme local weather conditions related to heat, wind and precipitation events. The enclosure will be insulated (R-19 minimum) or provide a low volume fan to prevent temperature extremes inside the enclosure where the sensors are located. The enclosures will be located in a secure location with limited opportunity for intrusion or vandalism and placed at a height above grade to limit access from non-project personnel. Enclosures will be secured to their foundations and protected from damage or theft and excessive vibrations. Adequate and stable AC power will be provided.

Internal temperature sensors will be provided within the sampling enclosure to document the instrument's exposure to adverse environmental temperature. Access to all sensor data will be provided through weekly remote interrogation to ensure proper operation. If hourly temperature extremes exceed the instruments designated temperature range, data will be assessed for accuracy or flagged to indicate potential problems such as excessive instrument drift. Automated checks and alerts will be provided to alert field personnel to excessive temperature, instrument drift, or elevated air quality levels. All air quality data will be checked against QA requirements. Air quality monitoring instruments will be purchased that operate within the expected temperature range for JC. The temperature data will be recorded with the air quality data to document potential equipment operational problems if used for sensor adjustments.

As a minimum, data will be collected for 9 weeks or a minimum of 75% data collection during each of the four seasons (a minimum of 9 months of data per calendar year) in order to assess the seasonal effect of temperature, predominant wind patterns, and changes in source emissions. Ozone will meet 90% data capture for the 8-hour daily maximum concentration during the predominant ozone season (June-August).



400 U.S. HIGHWAY #1, JERSEY CITY, NJ 07306  
TELEPHONE: (201) 706-4600  
FAX: (201) 547-6638

Stacey Flanagan, Director  
Jersey City Department of Health and Human Services  
Jackson Square Municipal Complex  
1 Jackson Square  
Jersey City, NJ 07305

March 22, 2022

Re: Letter of Support for the Community Engagement in Ambient Air Monitoring in Jersey City's Environmental Justice Neighborhoods Project

Dear Director Flanagan:

The Jersey City Housing Authority (JCHA) is pleased to support the Jersey City Department of Health and Human Services (HHS) efforts to mitigate environmental health effects in vulnerable Jersey City communities in collaboration with Sustainable Jersey City (SJC). SJC is committed to environmental justice and making a difference in the lives of socially vulnerable populations. The Environmental Protection Agency's "Enhanced Air Quality Monitoring for Communities" grant outlines the collection and use of scientific data to support future infrastructure changes that will provide permanent solutions for better living conditions for communities that rely on SJC's efforts.

The JCHA works with many local organizations, community groups, and institutional partners working to advance Jersey City's environmental health initiatives. Many of these efforts are centered around the need to improve the health of Jersey City's residents and the environment, and better educate our residents on how to reduce their exposure to adverse health conditions.

Both HHS and SJC is committed to building resiliency and reducing the health impacts from potential exposure to contaminants from nearby industrial, commercial, and transportation activities which are exacerbated during extreme heat and other environmental conditions. The JCHA is excited to help bridge the gap between the engagement of our community leaders and their ability to provide meaningful discourse with our residents to advance SJC's goals. We will provide our facilities, community contacts, and facilitate communication between all community partners and our residents to support the success of SJC with its projected goal of making Jersey City a healthier place to live.

We are excited to support SJC in this endeavor and its overall mission to "educate, empower and activate community stakeholders, to make Jersey City NJ and the region, a more sustainable and resilient place to live and work."

Sincerely,

 Digitally signed by Vivian Brady-Phillips  
Date: 2022.03.22 12:01:45  
+04'00'

Vivian Brady-Phillips  
Executive Director  
Jersey City Housing Authority



1700 Broadway  
Suite 400  
New York NY 10019  
USA

Tel 212.492.1400  
Fax 212.492.1472

**Gensler**

Stacey Flanagan, Director of Health & Human Services  
City of Jersey City  
Department of Health & Human Services  
Dr. Martin Luther King Jr., City Hall Annex  
1 Jackson Square  
Jersey City, NJ 07305

Re: Letter of Support for Community Engagement in Ambient Air Monitoring in Jersey City's  
Environmental Justice Neighborhoods

Dear Ms. Flanagan:

I am delighted to provide this letter of support. Gensler Research Institute will support your organization on the community engagement plan under the EPA Enhanced Air Monitoring for Communities Grant. Gensler is pleased to bring our expertise in green infrastructure design and planning to assist with solutions to potential community health problems identified during this AARP study. We will support your community engagement efforts through our extensive experience, applying real world practical solutions, while working in consensus with community partners so that design solutions consider local community specific needs and apply practical ideas that work for the benefit of each community.

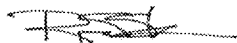
The Gensler Research Institute has put together a research team of architects and designers that will support your project team to provide educational information, design visioning and charrettes. By incorporating design into the process, residents will be able to gain a thorough understanding of how Urban Heat Islands and poor Air Quality are related and how design solutions can help mitigate these issues. Through community engagement sessions, we will work with local residents on identifying adverse environmental conditions and how to advocate for improved solutions in the community. Working directly with the Community Steering Committee and your project team, we will then offer proposed design solutions in key areas that are specific to the community needs, responsive to its local climate and targeted to improving Urban Heat Island and Air Quality. Design solutions that may be recommended on this project could include strategic landscape design, retrofitting existing buildings, installing exterior shades, expanding cool or green roofs, increasing shade and green infrastructure, or proposing green facades.

I look forward to our team providing technical assistance that will bring out design solutions supporting the community engagement aspects of the project with our partners in Jersey City.

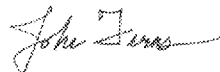
Sincerely,



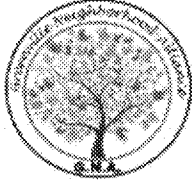
**Christine Barber**  
Principal, Director of Research  
Gensler Research Institute



**Roger Smith**  
Principal, Co-Director  
Center for Research on Equity and the Built Environment



**John Ferns**  
AIA, NCARB, LEED Green Associate



Stacey Flanagan, Director of Health & Human Services

City of Jersey City

Department of Health & Human Services

Dr. Martin Luther King Jr., City Hall Annex

1 Jackson Square

Jersey City, NJ 07305

Re: Letter of Support for Community Engagement in Ambient Air Monitoring in Jersey City's Environmental Justice Neighborhoods

Dear Ms. Flanagan:

I am delighted to provide this letter of support, which commits the Greenville Neighborhood Alliance (GNA) to working collaboratively with the New Jersey Health & Human Services (JCHHS) in a supporting partnership with the goal to mitigate environmental health effects in vulnerable Jersey City communities. I understand that JCHHS like GNA is committed to making a difference in the lives of Jersey City's socially vulnerable populations. The EPA grant titled "Enhanced Air Quality Monitoring for Communities" clearly outlines the collection and use of scientific data that can be used to support necessary community education on the health impacts from environmental air pollution and help to effect policy changes that will provide short-and long-term solutions for better health conditions for communities that rely on our help.

Greenville Neighborhood Alliance serves as a platform for residents (homeowners and renters) of the communities of Ward A and F to work together to enhance the quality of life in their neighborhoods. The Alliance focuses its attention on residential quality of life issues that include safety, land use development, traffic, green space, parking, and education. GNA serves to ensure that laws are obeyed and enforced, and we work with elected officials and municipal agencies to ensure accountability to their constituencies while being diligent in fulfilling their responsibilities. GNA aims to foster diversity through special outreach to underrepresented groups, build consensus, and generate solutions and we can effectively build a strong partnership between the community residents and municipal agencies as part of this EPA program.

We are excited to participate in this opportunity to bring together the members of our community and engage them in this national program that will bring attention to the unfair burdens that our communities of color have been suffering for years. Through educational outreach and empowerment of our citizens we can collectively bring about meaningful changes that take into consideration our community members' concerns for the health and welfare of their families. Our organization has been working with Jersey City officials to provide meaningful input from our underserved communities and giving them a Voice to make changes that provide an equitable benefit to all of Jersey City's neighborhoods.

We are excited to support JCHHS in this endeavor, since outcomes from this work are clearly in line with both JCHHS and GNA's Mission to educate, empower and activate community stakeholders, to make Jersey City NJ a more sustainable and resilient place for all people that live here.

Sincerely,

*Sandra Lovely*

Sandra Lovely 03/17/2022

Founder-Executive Director

Greenville Neighborhood Alliance

201-539-4316

March 18, 2022

Stacey Flanagan, Director of Health & Human Services  
City of Jersey City  
Department of Health & Human Services  
Dr. Martin Luther King Jr., City Hall Annex  
1 Jackson Square  
Jersey City, NJ 07305

Re: Letter of Support for SJC's Community Engagement in Ambient Air Monitoring in Jersey City's Environmental Justice Neighborhoods

Dear Ms. Flanagan:

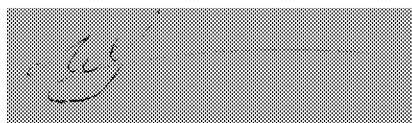
I am delighted to provide this letter of support for your air quality monitoring program under the EPA Enhanced Air Monitoring for Communities Grant. I am pleased to further our collaboration on air quality and health started during last year's Urban Heat Island and air quality study. We will provide our extensive experience with the collection and analysis of air quality data to support your air monitoring and community engagement program. We will also assist with developing an education program on the health impacts from environmental air pollution and how to use these data with community input to effect policy changes that will provide short and long-term solutions for better community health.

We will work with you, Sustainable Jersey City (SJC), and other community partners to ensure quality data and assist in interpretation and dissemination of the results. We will assist in the development of Community Environmental Health Leadership Training Programs for dissemination of the air quality monitoring results. Rutgers will work jointly with SJC on community outreach and analysis of health data as well as the development and carrying out the training program.

Rutgers EOHSI staff have been working with SJC and other grassroots groups in the neighboring cities of Newark (South Ward Environmental Alliance) and Elizabeth (Groundwork Elizabeth) providing assistance with scientific data analysis and environmental awareness training. Rutgers continues to study the health effects of traffic-related air pollution in ports-adjacent communities in New Jersey including impacts on respiratory and cardiovascular disease using community-based participatory research approaches.

I look forward to providing technical assistance on air quality monitoring and health effects, and supporting the community engagement aspects of the project with our partners in Jersey City, under the leadership of Sustainable Jersey City.

Sincerely,



Robert Laumbach M.D., M.P.H., C.I.H., D.A.B.T.  
Associate Professor of Environmental and Occupational Health  
Rutgers School of Public Health  
Environmental and Occupational Health Sciences Institute (EOHSI)  
Director, Community Engagement, Rutgers Center for Environmental Exposure and Disease



**U.S. EQUAL EMPLOYMENT OPPORTUNITY COMMISSION**  
**Newark Area Office**

Two Gateway Center, Suite 1703  
283-299 Market Street  
Newark, NJ 07102  
Intake Information Group: (800) 669-4000  
Intake Information Group TTY: (800) 669-6820  
Newark Status Line: (866) 408-8075  
Newark Direct Dial: (973) 645-4684  
TTY (973) 645-3004  
FAX (973) 645-4524  
Website: [www.eeoc.gov](http://www.eeoc.gov)

Gary Nye  
130 Winfield ave  
Jersey City, NJ 07305

Re: EEOC Charge Number: 524-2021-00618  
Nye v. CITY OF JERSEY CITY

Dear Mr. Nye,

The Equal Employment Opportunity Commission (hereinafter referred to as the "Commission"), has reviewed the above-referenced charge according to our charge prioritization procedures. These procedures, which are based on a reallocation of the Commission's staff resources, apply to all open charges in our inventory and call for us to focus our limited resources on those cases that are most likely to result in findings of violations of the laws we enforce.

In accordance with these procedures, we have examined your charge based upon the information and evidence you submitted. You allege you were discriminated against because of Retaliation, Diabetes, Heart/Cardiovascular

Respondent's position statement has been previously shared with you. You were provided with an opportunity to submit a rebuttal to this position statement but none was received

Based upon this analysis the Commission is unable to conclude that the information establishes a violation of federal law on the part of Respondent. This does not certify that Respondent is in compliance with the statutes. No finding is made as to any other issue that might be construed as having been raised by this charge.

The Commission's processing of this charge has been concluded. Included with this letter is your Notice of Dismissal and Right to Sue. Following this dismissal, you may only pursue this matter by filing suit against the Respondent named in the charge with 90 days of receipt of said notice. Otherwise, your right to sue will be lost. Please contact Investigator Luis E. Olivares at (862) 338-9418 if you have any questions.

Sincerely,

Aug 24, 2021

Date

Luis Olivares for

John Waldinger  
Area Office Director

Enclosure

Manifest for Grant Application # GRANT13578932

Grant Application XML file (total 1):

1. GrantApplication.xml. (size 29938 bytes)

Forms Included in Zip File(total 6):

1. Form ProjectNarrativeAttachments\_1\_2-V1.2.pdf (size 16041 bytes)

2. Form SF424\_3\_0-V3.0.pdf (size 24252 bytes)

3. Form SF424A-V1.0.pdf (size 23356 bytes)

4. Form EPA4700\_4\_3\_0-V3.0.pdf (size 22921 bytes)

5. Form OtherNarrativeAttachments\_1\_2-V1.2.pdf (size 16015 bytes)

6. Form EPA\_KeyContacts\_2\_0-V2.0.pdf (size 37318 bytes)

Attachments Included in Zip File (total 6):

1. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1235-Resumes.pdf application/pdf (size 447543 bytes)

2. SF424\_3\_0 SF424\_3\_0-1237-Additional Congressional Districts.pdf application/pdf (size 70899 bytes)

3. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1236-Letters of Suppot.pdf application/pdf (size 352024 bytes)

4. ProjectNarrativeAttachments\_1\_2 ProjectNarrativeAttachments\_1\_2-Attachments-1239-Gary Nye DIsmisal letter.pdf application/pdf (size 149283 bytes)

5. OtherNarrativeAttachments\_1\_2 OtherNarrativeAttachments\_1\_2-Attachments-1234-Quality Assurance Plan - EPA Enhancing Air Quality - Jersey City 2022.pdf application/pdf (size 136407 bytes)

6. ProjectNarrativeAttachments\_1\_2 ProjectNarrativeAttachments\_1\_2-Attachments-1238-EPA Enhancing Air Quality - Jersey City 2022 - Project Narrative.pdf application/pdf (size 793492 bytes)

## **City of Jersey City**

### **Additional Congressional Districts**

- NJ008 – Congressman Albio Sires
- NJ010 – Congressman Donald Payne, Jr.



# Abhilasha Meshram

## Ex. 6 Personal Privacy (PP)

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### EDUCATION

- Sep '15-May '17 **NEW YORK UNIVERSITY** New York City  
*M.S. in Public Relations and Corporate Communication GPA: 3.9*
- Aug '09-May '13 **UNIVERSITY OF MUMBAI** Mumbai, India  
*B.E in Electronics and Telecommunication GPA 3.58*

### AWARDS AND ACHIEVEMENTS

- Events Committee Chair, NYU SPS Graduate Student Council [2016]
- Developed a prototype Automated Medicine Dispensing Machine, funded by the University of Mumbai [2013]
- Vice-Chairperson, IEEE Students Chapter [2012]
- Public Relations Officer, IEEE Students Chapter [2011]

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### EXPERIENCE

- May '17-Present **PEFIN TECHNOLOGIES LLC** New York City  
*Public Relations Specialist*
- Managed national and global media relations and communication strategy for the firm
  - Created content for Pefin's social media channels, media kit, press releases and all outward facing communication material
  - Managed 7 of Pefin's social media channels and increased their overall following by 98.5% over 8 months
  - Conducted analyses and reported the impact of Pefin's press on user signups
  - Curated financial literacy content for Pefin's AI content engine
  - Organized monthly volunteer events and team outings for Pefin's team
- Sep '16-May '17 **NYU TANDON SCHOOL OF ENGINEERING** New York City  
*Intern, Marketing and Communications*
- Created media lists and pitched stories to local and national media
  - Wrote press releases and web stories for NYU Tandon
  - Assisted in implementation NYU Tandon's social media plan
  - Assisted in setting up on-campus and off-campus media events
- Jun '16-Aug '16 **FRAMEWORK LLC** Stamford, CT  
*Communications Intern*
- Helped draft Framework LLC's first Communication on Progress for the United Nations Global Compact
  - Organized and led an analyst huddle to discuss communication practices in the Pharma industry
  - Gained hands-on experience with the Bloomberg Terminal and its Excel functionality
- Nov '13-May '15 **ACCENTURE** Bangalore, India  
*Software Engineering Analyst, Data Visualization Capability*
- Facilitated strategic decision-making by creating graphical charts of employee engagement survey results for Accenture Leadership
  - Enabled automated monitoring of data for Accenture Life Sciences environment by developing a reusable plug and play dashboard with Tableau, an interactive graphical tool
  - Generated graphs of business performance metrics for a US-based pharma client to monitor and optimize revenue of their newly launched cancer drug

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### INTERESTS

#### SOCIAL CAUSES

- Community Service Team, NYU SPS Graduate Student Council
- Corporate Social Responsibility Team, Accenture
- Voice Recording Volunteer, Mitra Jyothi foundation for the blind

## DEBRA A. ITALIANO

## SENIOR PROGRAM MANAGER

### Ex. 6 Personal Privacy (PP)

### Ex. 6 Personal Privacy (PP)

Dynamic, social enterprise executive, driving innovation, sustainability planning, program development and operational transformation for industry and local communities. Proven success leading teams to accomplish corporate and municipal objectives through collaboration and technology enabled initiatives. Identified key stakeholder issues, created winning value propositions, and forged strategic business alliances to generate growth in new markets and community sectors. Managed successful product launches and ongoing sustainability programs.

#### **Areas of Expertise include:**

- |                           |                             |                                   |
|---------------------------|-----------------------------|-----------------------------------|
| ✓ Strategic Planning      | ✓ New Program Development   | ✓ Project Management              |
| ✓ Constituency Engagement | ✓ Market Alliances          | ✓ CSR ESG Implementation          |
| ✓ Green Economics         | ✓ Customer Value Innovation | ✓ Sustainability Costs & Benefits |

## EXPERIENCE & NOTABLE CONTRIBUTIONS

### **SUSTAINABLE JERSEY CITY (SJC), 501c3 Corporation** • Jersey City, NY • 2011-Present

#### **FOUNDER & CHAIR, PRESIDENT**

Developed Sustainable Jersey City Collaborative Network of community stakeholders, conservancy groups, academic institutions, municipal officials, and NGOs, launching Jersey City's Community Green Team with the objective of preparing for climate change impacts by advancing a best practices, participatory planning approach for Jersey City.

#### **KEY ACCOMPLISHMENTS:**

- **Engagement Strategies** – Implemented Concept Mapping initiative to establish priorities; launched successful neighborhood sustainability crowd resourcing platform and Project Management Toolkit for community leadership. 2019 educational advocacy and engagement strategies focused on Food Waste Recycling, Green Energy Efficient Buildings, Community Solar, Plastics Waste Stream, Citizen Led Green Infrastructure Design Install Programs; grew constituency to 3000+ in support of Neighborhood Green Team initiatives.
- **Funding / Sustainability Costs Benefits** – Secured start-up grants of \$110K from the Dodge Foundation, Hudson County Open Space Fund, Jersey City Municipal Utilities Authority for Community Green Infrastructure (GI) Planning and Demonstration Projects; award winning GI installation in Hudson County Washington Park, diverting 250K gal stormwater from sewer system; established SJC as 501c3 education corporation 2020; 2021 raise of \$50K for community based research linking climate change and environmental justice to public health.
- **Community Education / Sustainability Planning** - Launched Fast Track Certificate Program in Urban Sustainability at Hudson County Community College, now in its 8<sup>th</sup> year; first sustainability planning focused educational program in Jersey City and Hudson County NJ – CEU endorsements from US Green Building Council, Eco Schools USA. Graduated 255 Community Leaders. Focus on Emissions Redux, GI, Waste Streams in Cities; 2021 collaboration with JC Health & Human Services to tie in and develop neighborhood climate action teams.

### **MERINTRA CO., LLC.** • Jersey City, NJ • 2003-Present

#### **OWNER, MANAGING PRINCIPAL**

Created and manages a sustainable business incubator to successfully drive commercial and community transformational activities. The process includes program ideation, partnership identification and facilitation, funds sourcing, negotiation, and project implementation; for corporate entities programs includes an ESG focus. Long-term targeted outcome includes development of Impact Investment opportunities for the City of Jersey City NJ.

#### **KEY ACCOMPLISHMENTS:**

- **Green Financing of Mixed Use Commercial Real Estate** – this program advised on commercial building retrofits for energy efficiency and water conservation tied to LEED Certification, providing guidance for favorable re-finance and construction loan incentives and economic impact with community co-benefits to drive market demand.

- **Innovation** - Developed a new model for a Green Civics 2.0 infrastructure, using a case study and action learning approach. This model became Sustainable Jersey City (SJC) which has evolved to become its own organization. Tied SJC to green business sector sponsorships to establish sector's value add to marketplace.
- **Market Alliances** - Developer of key sustainability funding strategies for regional food system value chain partners. Created selective private sector partnerships and co-branding opportunities designed to grow distribution opportunities for small and mid-sized farmers.

**MORGAN STANLEY CO.** • New York, NY • 1997-2002

**VICE PRESIDENT, INSTITUTIONAL RISK & REPORTING (IRR) DIVISION-INSTITUTIONAL SECURITIES**

Improved corporate value through leadership roles across a variety of global strategic initiatives in organizational alignment, performance management, complex technology transformations, learning and development.

**KEY ACCOMPLISHMENTS:**

- **New Program Development** - Designed and implemented strategic Balanced Scorecard Dashboard reporting methodology, business unit working group and related systems to support assessment and key performance management goals across operational risk initiatives; partnered with Harvard Business Consulting and SAS Business Intelligence.
- **Strategic Planning** - Built cross-silo consensus using an interview process for division executives concentrating on strategic goals and business risks as key quantifiable indicators; COO sponsored corporate culture change management project.
- **Project Management** - Led development of detailed contingency planning blueprints for Corporate Finance Division and Controllers for Y2K worldwide; defined and highlighted key business risks and exposures for the firm's Distributed Reporting Operations Systems (18,000 reports), resulting in planned contingencies in the event of business interruption.

## EDUCATION & TRAINING

**Bachelor of Science, General Studies Major, Industrial Psychology /Business Minor**  
PACE UNIVERSITY (1993)

**ESG Investment & Finance Certificate** |(2016)  
GOVERNANCE & ACCOUNTABILITY INSTITUTE / GLOBAL CHANGE ASSOCIATES

**Project Management Certificate (PMI PMP** expected 2021) |  
ANSFIELD SCHOOL OF BUSINESS, RAMAPO COLLEGE OF NJ

**Urban Environmental Leadership Program** | ASSOCIATION NJ ENVIRONMENTAL COMMISSIONS (2015)

**Education for Sustainability Keystone Fellow** | (2016)  
THE CLOUD INSTITUTE FOR SUSTAINABILITY EDUCATION

**Permaculture Design Certification** | PERMACULTURE RESEARCH INSTITUTE (PRI) (2015)

**Carbon Market Trading & Finance** | PGS ENERGY TRAINING (2015)

**LEED Accredited Professional** | US GREEN BUILDING COUNCIL (2002)

## HONORS

**Honoree 2014 Women's History Month**

NJ State Legislature / Hudson County NJ, 'Celebrating Women of Character, Courage and Commitment'  
Recognition for 'Sustainable Jersey City' program initiative

# Ronald D. Petherbridge

## Ex. 6 Personal Privacy (PP)

### Experience

#### Industrial Experience

July, 1980 – August, 2000

Design, Installation, testing, auditing, and data analysis for ambient air quality systems and emissions monitoring systems. Testing and analysis of ambient and industrial noise measurements. Design acoustical control systems to mitigate ambient noise complaints. Modeling air quality and noise impacts from traffic and industrial sources. Permitting industrial facilities for air emissions and designing government compliance programs as well as conducting industrial compliance audits. Conducting industrial hazard analyses and modeling community exposure to hazardous substances. Designed safety, monitoring, and emergency preparedness programs for various industrial facilities. Conducted environmental compliance audits and assisted with writing environmental impact statements for various new commercial, industrial, and residential developments.

#### Teaching Experience

September, 2000 - June, 2021

Teach Physics at various levels, including basic mechanics, forces, work/energy, electricity, magnetism, waves (optics and sound) for 21 years. Teach research methods and projects courses as part of the schools University Program (UP) since its inception. The Research Methods course introduces the students to many of the basic scientific research skills such as scientific math, graphing, analyzing data, error analyses, spreadsheets, statistics, and writing scientific reports. The Research Projects course builds on the basic research skills from the Research Methods class and involves critiquing scientific journal articles, statistical data analysis techniques, and designing and conducting a research project over a 12-week time frame. Teach the Applications of Engineering course since its inception. The course is part of our Engineering UP Program and covers general subjects such as engineering registrations, patents, ethics, engineering failures, environmental issues, and an overview of many different engineering fields. The course also involves in-depth projects in the fields of power generation, geotechnical, mechanical and safety engineering. The students learn how to prepare block flow diagrams, piping and instrument diagrams, hazard analyses, building foundation designs, and they also conduct a mechanical engineering design project with wind turbines. Currently teaching a Bio-Mechanics course applying Physics concepts to the way the human body works through lessons on levers, torque, acceleration, forces and the response of muscles and bones to stress and strains. This course covers specific subjects in sports injuries, orthotic, and prosthetic designs.

#### Member Sustainable Jersey City (Non-Profit)

March, 2021 - Present

Acting in an advisory role on urban heat island studies including data analysis and implementation of cooling strategies such as cool roofs and various green infrastructure methods. Assisting with community outreach and educational plans for implementation of environmental sustainability and resiliency strategies. Current advisory work included developing an emissions database of existing air pollution

sources within Newark, Elizabeth and Jersey City to assist with the development of a heat and air quality testing plan, and baseline emission source inventory related to pulmonary health issues for an urban heat island (UHI) and air quality study. Working on analysis of UHI data and heat vulnerability indices (HVI) to correlate heat and air quality problems with at risk communities, and using these data to develop the most effective community sponsored health interventions. This includes working with the Jersey City communities on the most effective response to heat related health issues through a community education plan. Provide grant writing to assist with organization funding.

## **Education/Certifications**

### **BS Meteorology – Penn State University**

**September, 1975 – June, 1980**

Degree specialization in environmental, engineering, flood forecasting.

### **MS Science and Technology – Ramapo College (12 credits only) September 2008 - 2009**

Degree specialization designing online HTML programs for teaching scientific concepts in the classroom. Did not complete the degree due to personal reasons.

### **Climate Reality Leadership Training with Al Gore**

**July 2020**

Certified leader for training and presenting the realities of Global Climate Change to private and government leaders and/or institutions.

NJ teaching certificate in Physics, Chemistry, and Earth Science.

**June 2001**

## **Skills**

Extensive experience in use of various technologies including: Excel and Google Spreadsheets, graphical analysis programs including video analysis (Logger Pro, Excel, Google), data logging equipment (Labpro), flowchart programs (Inspiration), video editing (iMovie), classroom management (Schoology, Google Classroom, Genesis), student learning applications (Socrative, Screencastify, Quiziz, Edpuzzle, Quizlet).

Statistical applications in experimental research.

Air quality and noise modeling for industrial, in-door, and mobile emission sources. Installation, calibration and testing of ambient air quality and air emissions.

**BIOGRAPHICAL SKETCH**

Provide the following information for the Senior/key personnel and other significant contributors  
Follow this format for each person. **DO NOT EXCEED FIVE PAGES.**

NAME: Laumbach, Robert, John

eRA COMMONS USER NAME (credential, e.g., agency login): laumbach

POSITION TITLE: Associate Professor of Environmental and Occupational Health

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
The Cooper Union School of Art, New York, NY			Program in Fine Arts
Rutgers University, Cook College, New Brunswick, NJ	BS	02/1984	Environmental Science
Rutgers-Robert Wood Johnson Medical School, New Brunswick, NJ	MD	05/1997	Medicine
Columbia University School of Public Health, New York, NY	MPH	02/1992	Occupational & Environmental Health
Rutgers-Robert Wood Johnson Medical School, New Brunswick, NJ	Resident/ Chief Resident	1997-2000	Family Medicine
Rutgers-Robert Wood Johnson Medical School, New Brunswick, NJ	Fellow	2000-2001	Occupational Medicine

**A. Personal Statement**

As an Occupational and Environmental Medicine specialist, also board-certified in Family Practice, and a Certified Industrial Hygienist, my work focuses on transdisciplinary integration of biologically and epidemiologically based evidence to improve clinical and public health practice. A major focus of my work is on community-engaged, translational research to provide a scientific evidence basis for policy that improves environmental health conditions in populations and communities that are disproportionately impacted by environmental chemical exposures and health risks. This work is aligned with my current study of the health effects of PFAS compounds in a major CDC-funded 5-year epidemiological study of drinking water contamination in Paulsboro NJ. I continue to study the health effects of traffic-related air pollution in ports-adjacent communities in New Jersey including impacts on respiratory and cardiovascular disease using community-based participatory research approaches. As Director of Community Engagement for our NIEHS-funded Center for Environmental Exposure and Disease, I work with community partners to translate findings from our work to policy interventions to reduce exposures and to address cumulative impacts of exposure to multiple chemical and nonchemical stressors in New Jersey communities. I look forward to providing technical assistance on air quality monitoring and health effects, and supporting the community engagement aspects of the project with our partners in Jersey City, under leadership of Sustainable Jersey City.

- a. Laumbach, R.J., Meng Q., Kipen H.M. What can individuals do to reduce personal health risks from air pollution? *Journal of Thoracic Disease* 2015;7(1):97-107. PMID: PMC4311076
- b. Laumbach R.J, Cromar K. Personal interventions to reduce exposure and risk from air pollution. *Annual Reviews in Public Health* (in Press)

**Positions and Employment**

- 2001-2012 Assistant Professor, Department of Environmental and Occupational Medicine, Rutgers-Robert Wood Johnson Medical School.
- 2002-2012 Assistant Professor (joint), Department of Environmental and Occupational Health, Rutgers-School of Public Health

- 2012-2015 Associate Professor, Department of Environmental and Occupational Medicine, Rutgers-Robert Wood Johnson Medical School
- 2015- Associate Professor, Department of Environmental and Occupational Health, Rutgers-School of Public Health
- 2015- Director, Community Outreach and Engagement, Center for Environmental Exposure and Disease

### **Selected Bibliography**

- Laumbach, R.J., Fiedler, N., Gardner, C.R., Laskin, D.L., Fan, Z.H., Zhang, J., Weschler, C.J., Lioy, P.J., Devlin, R.B., Ohman-Strickland P, Kelly-McNeil K, & Kipen HM. (2005) Nasal effects of a mixture of volatile organic compounds and their ozone oxidation products. *Journal of Occupational and Environmental Medicine*, 47, 1182-89.
- Sunil V, Laumbach RJ, Patel K, Turpin BJ, Lim HJ, Kipen HM, Laskin J, & Laskin DL. (2007) Pulmonary Effects of Inhaled Limonene Ozone Reaction Products in Elderly Rats. *Toxicology and Applied Pharmacology*, 222(2), 211-20.
- Laumbach, R., Tong, J., Zhang, L., Ohman-Strickland, P., Stern, A., Fiedler, N., Kipen, H., Kelly-McNeil, K., Lioy, P., & Zhang, J. (2009) Quantification of 1-aminopyrene in human urine after a controlled exposure to diesel exhaust. *Journal of Environmental Monitoring*, 11(1), 153-159. PMID: PMC4049318
- Kipen, H.M., Gandhi, S., Rich, D., Ohman-Strickland, P., Laumbach, R., Fan, Z., Chen, L., Laskin, D., Zhang, J., & Madura, K. (2011) Acute decreases in proteasome pathway activity following inhalation of fresh diesel exhaust or secondary organic aerosol. *Environmental Health Perspectives*, 119(5), 658-663. PMID: PMC3094417
- Laumbach, R.J., Kipen, H.M., Kelly-McNeil, K., Zhang, L., Lioy, P.J., Ohman-Strickland, P., Gong, J., Kusnecov, A., & Fiedler, N. (2011) Sickness response symptoms among healthy volunteers after controlled exposures to diesel exhaust and psychological stress. *Environmental Health Perspectives*, 119(7), 945-950. PMID: PMC3223003
- Hussain, S., Laumbach, R., Coleman, J., Youssef, H., Kelly-McNeil, K., Ohman-Strickland, P., Zhang, J., & Kipen, H. (2012) Controlled exposure to diesel exhaust causes nitrite in exhaled breath condensate among subjects with asthma. *Journal of Occupational and Environmental Medicine*, 54(10), 1186-1191. PMID: PMC4443752
- Laumbach, R.J. & Kipen, H.M. (2010) Acute effects of motor vehicle traffic-related air pollution exposures on measures of oxidative stress in human airways. *Annals of the New York Academy of Sciences*, 1203, 107-12. PMID: PMC4043285
- Laumbach, R.J., Rich, D.Q., Gandhi, S., Amorosa, L., Schneider, S., Zhang, J., Ohman-Strickland, P., Gong, J., Lelyanov, O., & Kipen, H.M. (2010) Acute changes in heart rate variability in subjects with diabetes following a highway traffic exposure. *Journal of Occupational and Environmental Medicine*, 52 (3), 324-31. PMID: PMC4043282
- Laumbach, R.J. & Kipen, H.M. (2012) Respiratory health effects of air pollution: update on biomass smoke and traffic pollution. *Journal of Allergy and Clinical Immunology*, 129, 3-11. PMID: PMC3272333
- Laumbach, R.J., Kipen, H.M., Ko, S., Kelly-McNeil, K., Cepeda, C., Pettit, A., Ohman-Strickland, P., Zhang, L., Zhang, J., Gong, J., Velepparambil, M., & Gow, A.J. (2014) A controlled trial of acute effects of human exposure to traffic particles on pulmonary oxidative stress and heart rate variability. *Particle and Fiber Toxicology*, 1;11(1):45. PMID: PMC4236446
- Payne-Sturges DC, Korfmacher KS, Cory-Slechta DA, Jimenez M, Symanski E, Carr Shmool JL, Dotson-Newman O, Clougherty JE, French R, Levy JI, Laumbach RJ, Rodgers K, Bongiovanni R, Scammell MK. Engaging communities in research on cumulative risk and social stress-environment interactions: lessons learned from EPA's STAR program. *Environmental Justice*, 8(6): 203-212. 2015. PMID: PMC4981147
- Ji N, Fang M, Baptista A, Cepeda C, Greenberg M, Mincey IC, Ohman-Strickland P, Haynes F, Fiedler N, Kipen HM, Laumbach RJ. Exposure to traffic-related air pollution and changes in exhaled nitric oxide and DNA methylation in arginase and nitric oxide synthase in children with asthma. *Environ Health*. 2021 Feb 11;20(1):12. doi: 10.1186/s12940-020-00678-8. PMID: 33573660; PMID: PMC7879528.

Environmental Exposures and Disease Coordinator, Community Engagement Core Center for Rutgers Univ.  
**Kerry Margaret Butch**; BA 1993, George Mason University, Fairfax, VA Sociology

## **A. PERSONAL STATEMENT**

I believe that I have a responsibility to work to impact health disparities that exist in environmental justice communities and CEED provides me that opportunity. The relationships, experiences and learning that I have done over the course of my career can only positively contribute and strengthen the community outreach and engagement of the Center. Providing communities and community members with access to research and education is critical to making that impact. Providing scientists with knowledgeable community members and their perspective and partnership can only enrich research. I am eager to be a part of the growth of the Center's Stakeholder Advisory Board and its community engagement.

## **B. POSITIONS AND HONOR**

### Positions and Employment

1994 -1995 Community Organizer, New Jersey Community Water Watch, (AmeriCorps). Asbury Park, NJ.  
1995-1996 Environmental Program Coordinator/Community Organizer. Newark, NJ. 1996-1997 Community Organizer, The Asbury Park Consortium. Asbury Park, NJ. 1997-2002 Executive Director, The Asbury Park Consortium. Asbury Park, NJ.

2003-2005 Independent Consultant, (Self Employed). Asbury Park, NJ.

2006-2011 Urban Project Director, Association of New Jersey Environmental Commissions. Mendham, NJ.

2011-2015 Executive Director, League of Women Voters of New Jersey. Trenton, NJ. 2015-2016 Community Organizer, New Jersey Citizen Action. Highland Park, NJ. 2016-Present Coordinator, Community Outreach and Engagement Core (COEC), Center for Environmental Exposures and Disease, EOHSI. Piscataway/New Brunswick, NJ.

### Certification and Other Experience:

2005-present Steering Committee Member, New Jersey Environmental Justice Alliance 2009-2011

Member, Environmental Justice Advisory Council, New Jersey Department of Environmental Protection

2011-2015 Member, New Jersey Voter Protection Working Group

### Honors/Awards:

1999 Martin Luther King Distinguished Service Award, St. Stephen AME Zion Church, Asbury Park, NJ

2002 Outstanding Organization Developing Volunteer Leadership, Leadership New Jersey 2014

High Impact Visibility Award, League of Women Voters of the United States

## **C. SELECTED PUBLICATIONS/PRESENTATIONS (IN CHRONOLOGICAL ORDER)**

**Publications:** Association of New Jersey Environmental Commission's (ANJEC's) Quarterly Report:

"The Outdoor Recreation and Alliance Launches a Parks Maintenance Campaign," ANJEC Report, 2006.

"Eminent Domain in New Jersey: Of House and Home," ANJEC Report, Autumn 2006.

"Contaminated Sites and Schools: Putting New Jersey's Children at Risk," ANJEC Report, Winter 2007. "Saving Petty's Island (Camden)," ANJEC Report, Spring 2007. "Leading the Charge on Discharge," ANJEC Report, Summer 2007.

"Eminent Domain and Open Space," ANJEC Report, Winter 2008. "The Precautionary Principle: The Gate Across the Stairwell," ANJEC Report, Spring 2008. "A Room Without a View: Blocking Out the Sun and River in Newark's Ironbound Neighborhood," ANJEC Report, Summer 2008. "Fourteen Graduate ANJEC Urban Leadership Program," ANJEC Report, Autumn 2008. "Greening New Jersey's Economy," ANJEC in the City Column, ANJEC Report, Winter 2009. "Exploring New Jersey's Cities," ANJEC Report, Spring 2009.



"Mayor Booker Swears in First Environmental Commission in Newark History," ANJEC Report, Summer 2009. "Stories from the Road", ANJEC Report, Autumn 2009.

"Clearing the Air While We Keep On Trucking," ANJEC Report, Winter 2010. "Cumulative Impact: New Method to Ease Burden on Poor and Minority Communities " ANJEC Report, Spring 2010. "Army's "No Significant Impact" Finding Raises Questions," ANJEC Report, Summer 2010. "Newark Parks Enjoying Rebirth," ANJEC Report, Autumn 2010.

"Commissioner Martin Shares Vision for DEP, " ANJEC Report, Winter 2011. "Eco Art: A Recipe for Engaging Youth in Your City's Environmental Commission," ANJEC Report, Winter 2011. "Redevelopment Reform Stalls in the Legislature," ANJEC Report, Spring 2011.

### **Debate Coordination**

- Coordinated televised debates of New Jersey Congressional and Senatorial races in partnership with WABC, WPVI, Univision, the Star Ledger, the Bergen Record and the Philadelphia Inquirer. (2011-2015)

### **Convention and Educational Forum Coordination**

- Executed educational forums and key organizational events such as two biennial conventions, spring and fall workshops, for example, "Commemorating the 50<sup>th</sup> Anniversary of the Voting Rights Act," "After Citizen's United, Democracy for Sale?" and "Modern Day Slavery: Human Trafficking in New Jersey." (2011-2015)
- Organized an Environmental Health Summit symposium on improving air quality and public health related to the New Jersey seaports, titled "Public Health and Our Ports: The Road to Clean Air" at the Rutgers Law School in Newark NJ (2018)

### **Leadership Training**

- Provided 58 Asbury Park residents with 84 hours of leadership training and regranted over \$124,000 worth of funding to grassroots projects throughout the city. (1996-2002)
- Designed and implemented LEADING GREEN, a leadership training program that honed the skills of 26 urban environmental commissioners, local officials and interested citizens, on environmental topics of interest to residents of cities and developed suburbs. (2008-2009)
- Organized local road show presentations to support the work of existing and potential environmental commissions in urban and developed communities. (2006-2011)

### **Documentary Film**

Greetings from Asbury Park This film follows 91 year old Angie Hampilos, whose property is being threatened with eminent domain under the city's redevelopment plan. Producer, Winner: New Jersey International Film Festival, shown on PBS (2009)

Storming for the Vote: Hurricane Sandy and the Election This film chronicles the herculean efforts taken by election officials and election rights advocates that assured that the 2012 General Election took place in New Jersey despite having 800 polling places without power after the storm. Producer, Winner: High Visibility Award League of Women Voter of the United States, shown internationally via the internet. (2013)

Countdown to Cleaner Air: Street Scientists and the Fight for First Street This film highlights the partnership between Elizabeth community members and Rutgers University researchers. It explains how performing a truck count and air monitoring shined a spotlight on how truck traffic was impacting the daily lives of residents. The data collected helped convince local and state officials to enact a truck ban on First Street. (2018)

## **D. CURRENT RESEARCH SUPPORT**

R25 ES005022 (Zarbl) 07/29/14-03/31/19 NIEHS Research & Environmental Health Sciences Center This is a Center grant designed to conduct research in environmental health sciences. Role: Community Outreach and Engagement Core Coordinator

**SUMMARY OF QUALIFICATIONS**

Executive Director with 20 years experience in fundraising, strategic planning, program management, facilitation, and evaluation.

- Collaborative team player and/or strong individual employee with the skills to prioritize and motivate project contributors to produce high quality, efficient results
- Highly creative and analytical with exceptional organizational skills, the ability to multi task, and strong capacity for meeting deadlines
- Fluent Microsoft Office Suite, SPSS, Quark, Raiser's Edge, Gifts, Filemaker Pro, Lotus 123, SNAP8
- FS3: Fluent Spanish

**Professional Experience**

**CITY OF JERSEY CITY**

**DIRECTOR OF HEALTH & HUMAN SERVICES**

**2013 – PRESENT**

**JERSEY CITY, NJ**

- Direct the multi-purpose public agency, responsible for \$10M budget with successful outcomes in the following Maternal Infant programs : Women, Infant and Children (WIC) Program; Prevention Oriented System for Child Health (PorSCHe) Public health nurse management for children referred through Lead Prevention Program; Children's Health Conference Clinic (Immunizations);
- Manage City's Preventive Medicine Clinic (Treatment of STD's & Pre and Post HIV Testing Counseling).
- Lead Federal Nutrition Programs: CACAFP, SMP, Congregate & Delivery Meals
- Grantor of Jersey City Alliance to Combat Drug and Alcohol Abuse
- Executive Member of the Mayor's Quality of Life Task Force.

**PUBLIC HEALTH SOLUTIONS**

**DIRECTOR, NEIGHBORHOOD WIC**

**2011 - 2013**

**DIRECTOR, PUBLIC HEALTH SERVICE PROGRAMS**

**2006-2010**

**NEW YORK, NEW YORK**

- Director largest Women, Infants, and Children supplemental food program (WIC) in the East Coast, serving 50,000 participants, managing nearly \$9M in allocated budget
- Lead program development and implementation for variety of public health programs, including: WIC, Nutrition Outreach Education Program, WIC Promotions Project, WIC Vendor Management Agency, and the Sudden Infant Death Risk Reduction and Counseling Center.
- Prepare proposals, funding applications, and reports with project directors and facilitated funders and agency communications to ensure continued financial support.
- Monitor the progress, review goals, and maintain responsibility for all projects' contract deliverables such as: people served, trainings held, goals met, etc.

**SLF CONSULTING**

**2005 - 2006**

**PRINCIPAL**

**NEW YORK, NEW YORK**

- CLIENT LIST: ABRAHAM HOUSE, BIG BROTHERS BIG SISTERS OF NYC, DR. CLUE, LAURENCE A PAGNONI & ASSOCIATES, INC, NEW YORK CITY COALITION AGAINST HUNGER, PROCEED INC, & TEMPLE UNIVERSITY
- Created and Implemented services that promote systemic change for non-profits using asset-based model to identify an organization's strength, culture and effectiveness to design appropriate training and professional development programming.
- Provided brand development and management assistance; including website communications, cause related marketing opportunities and cost-benefit scenarios.
- Developed evaluations that included focus groups, surveys, program documentation, interviews with key stakeholders, independent field research, and literature review.
- Led organizations in a dynamic process which defines its mission and vision, sets goals, and develops action steps to help focus its present and future resources toward fulfilling its vision.

**SHARE OUR STRENGTH****NATIONAL MANAGER, COOKING MATTERS (FORMERLY OPERATION FRONTLINE)****2002 - 2005****WASHINGTON, DC**

- Managed seven staff members of anti-hunger organization to develop and implement franchise-style direct service program, worked in cooperation with 15 Executive Directors on licensing and contract agreements to oversee program success.
- Secured and implemented national and local program corporate sponsorship development and operation of 15 local programs in partnership with Creative Enterprise & Marketing Department.
- Developed and monitored grant agency requirements and reporting procedures, developing and overseeing the national Operation Frontline budget, providing technical assistance and support to local managers.
- Directed AmeriCorps\*VISTA National Demonstration Project which includes the development of project goals, budgets, volunteer work plans and progress reports and responsibility for 20+ AmeriCorps members.

**THE LEADER TO LEADER INSTITUTE (FORMERLY PETER F. DRUCKER FOUNDATION FOR NONPROFIT MANAGEMENT)****DIRECTOR OF ENGAGEMENT, MANDEL FELLOW****2001 - 2002****NEW YORK, NEW YORK**

- Increased awareness of Excellence in Performance training program based on Foundation publications:
- Drucker Foundation Self-Assessment Tool (SAT) and Meeting the Collaboration Challenge: Developing Strategic Alliances Between Nonprofit Organizations and Businesses.
- Implemented a direct service component and increased the number of nonprofit professionals' trained using SAT providing on-line technical assistance and support to consultants, strategic planners, and nonprofit leaders.
- Coordinated 22-person volunteer Training Team to expand outreach of Foundation's strategic planning and alliance building methods to nonprofit leaders.

**BIG BROTHERS BIG SISTERS OF NEW YORK CITY****MANAGER, CENTER FOR TRAINING****1999 - 2001****NEW YORK, NEW YORK**

- Managed Big Brothers Big Sisters of New York City and Fordham University Graduate School of Social Services 32-hour Mentoring Supervisor Certificate (MSC) Program:
  - Diversified program to expand course offering and double enrollment.
  - Increased retention rate by over 40%, graduated 15% over the strategic planned goal.
- Supervised Business Nonprofit Exchange Program for over 60 volunteers, conducted interviews, monitored, and evaluated status of projects.
- Introduced nonprofit training and leadership programming to service a greater audience within youth service movement.

**THE UNITED STATES PEACE CORPS****RECRUITER****1998 - 1999****PROGRAM COORDINATOR****1997 - 1998****COMMUNITY DEVELOPMENT SPECIALIST****1994 - 1996****COSTA RICA & NEW YORK, NEW YORK**

- Designed and implemented recruitment campaigns, organized special events, and spoke to the media and the public in a four-state region to promote international development organization.
- Evaluated candidacy of over 200 prospective candidates for Peace Corps Service:
- Reviewed applications, conducted interviews, and matched suitable applicants with appropriate international assignments in over 70 countries.
- Supervised 20-community development and urban youth field volunteers.
- Designed, coordinated, and prepared 35th Anniversary booklet of Peace Corps Costa Rica, a yearbook of events and accomplishments of over 5,000 volunteers.
- Administered and audited Peace Corps Partnership Program, a volunteer initiated grant program of over \$90,000, as well as USAID Small Projects Assistance grant program.
- Trained over 40 community leaders in leadership and management skills to improve sustainable development.
- Developed adult education program for basic literacy and advanced high school diplomas that served over 25 adults in three communities; Coordinated and introduced applied learning methods for statewide pre-school education teachers.

- Organized grassroots fundraising activities, wrote and received over \$500, 000 in grant proposals for community.

#### **ACADEMIC EXPERIENCE**

**Master of Science in Nonprofit Management** 2001  
**Milano The New School for Management and Urban Policy**  
 New York, New York  
 Professional Decision Report: Developing Local Recruitment Strategies to Increase Volunteerism for Outer- Borough Programs  
 Awards: Erwin S. Wolfson Scholarship  
 La Guardia Scholarship  
 Research: Initiated and developed data-collection model to evaluate the efficacy of programs for the Covenant House  
 Designed and implemented program evaluation for West Harlem Environmental Action, Inc.  
 Conducted grant research on Commercial Re-development Project for Local Initiatives Supportive Communities

**Bachelor of Arts in Political Science** 1994  
**Michigan State University**  
 East Lansing, Michigan

Overseas Study: Comparative Economics & English Speaking Democracies 1992  
**Michigan State University/ University of London**  
 London, England  
 Thesis: Affects of British Sovereignty Due to the European Union

#### **PROFESSIONAL TRAINING**

Fundamentals of Research Interviewing 2005  
**Temple University's Institute for Survey Research**

Certificate in Fundraising Fundamentals 2000  
**Association Fundraising Professionals, New York, New York**

Mentoring Supervisor Certificate 1999  
**Big Brothers Big Sisters on New York City & Fordham University, New York, New York**

Peace Corps Training 1994  
**Center for Human Potential, Alajuela, Costa Rica**

#### **VOLUNTEER LEADERSHIP**

Member/Owner, JCFOOD COOP 2011- Present  
 Governing Board Member, Food Systems Network NYC 2008 – 2014  
 Recipient Agency Liaison, Share Our Strength's Taste of the Nation Community 2005 –2013  
 Community Board Member, Manhattan District 4 2006 – 2008  
 Treasurer, Milano PhD Student's Advocacy Association 2006 – 2007  
 ACPD Subcommittee Co-Chair, Society for Nutrition Educators 2005 – 2006  
 NANA Representative, Society for Nutrition Educators 2005 – 2006  
 President, Michigan State University Alumni Association of Greater DC 2003 – 2005  
 President, Board of Directors, Art for Change 2000 – 2005

#### CONFERENCE PRESENTATIONS

##### ***Changes in the WIC food package: new opportunities to promote healthier foods***

Community Food Security Conference, Cherry Hill, NJ

October 2008

##### ***Small But Mighty: Marketing Strategies for the Small Non-Profit***

The Empowered Youth Worker Conference, Big Brothers Big Sisters of New York City

April 2008

##### ***Finding the Heartbeat of Your Clients & Community***

The Empowered Youth Worker Conference, Big Brothers Big Sisters of New York City

April 2008

##### ***Farmers' Market EBT and Low-Income Families 'Access to Nutrition***

2007 National Anti-Hunger Policy Conference, FRAC & America's Second Harvest, Washington, DC

February 2007

##### ***Improving Evaluation with Scannable Surveys: An Introduction to Operation Frontline Program Evaluation Model***

Society of Nutrition Education Annual Conference, Orlando, FL

July 2005

Co-Author: Angineeki Jones, MPA

#### CONFERENCE POSTERS

##### ***A Study of Women's Perspective on Health, Nutrition, and Food Purchases in Washington Heights, New York***

Community Food Security Conference, Vancouver, BC

October 2006

##### ***Promoting Healthy Eating by Young Children through Partnerships with Head Start***, Co-Author Angineeki Jones, MPA

Society of Nutrition Education, Orlando, FL

July 2005

#### NON-ACADEMIC PRESENTATIONS

##### ***Staff Assessments: Nurturing the professional growth of your staff***

Latino Commission on AIDS Training Institute, Hartford, CT

August 2007

##### ***Money Changes Everything: Implementing Financial Literacy into Youth Programs***

Big Brothers Big Sisters of New York City, Professional Development Series

October 2006

##### ***Peers: Building your agency's infrastructure through peers***

Latino Commission on AIDS Training Institute, New York, NY

May 2006

##### ***Staff Assessments: Nurturing the professional growth of your staff***

Latino Commission on AIDS Training Institute, New York, NY

May 2006

##### ***What is a Mentor and How do I become One? Skills for Volunteer Service***

Americorps\* 10th Anniversary Conference, Commission for National and Community Service, Washington, DC

November 2004

##### ***Evaluating Attitudes around Money: Skills to Make Every Cent Count***

Americorps\* 10th Anniversary Conference, Commission for National and Community Service, Washington, DC

November 2004

##### ***Improving Evaluation: an Introduction to Operation Frontline's Retrospective Research and Program Evaluation Tools***

Share Our Strength's Conference of Leaders, Montreal, Canada

August 2004

#### NON ACADEMIC PUBLICATIONS

##### **Book Reviews:**

***Guanacaste Snapshots: Experiences in Rural Costa Rica***, Peace Corps Readers & Writers

November 2004

***Tales from the Jungle . . . a Gringa in Nicaragua***, Peace Corps Readers & Writers

March 2002

##### **Column:**

***So What's in Your Toolbox?***, MNA Links, Michigan Nonprofit Association

August 2001

***Adapting Standards to Fit an Organization's Mission is Crucial***, MNA Links, Michigan Nonprofit Association

September 2001

***Alliances Foster Good Return on Investment***, MNA Links, Michigan Nonprofit Association

October 2001

***Charitable Licensing Required for Nonprofit Organizations***, MNA Links, Michigan Nonprofit Association

November 2001

**Project Title:** Community Air Quality Monitoring for Ozone and Particulate Matter Air Pollution in Jersey City's Underserved Communities

**Applicant Information:**

Department of Health & Human Services  
City of Jersey City  
1 Jackson Square  
Jersey City, New Jersey 07306  
Contact: Dr. Alexander Mirescu  
Email: [amirescu@jcnj.org](mailto:amirescu@jcnj.org)  
Phone: (201) 547-3201  
DUNS#: 831438275

**Set Aside:** No Set-Aside

**Brief Description of Applicant Organization:** The Department of Health & Human Services (hereafter, DHHS) is Jersey City's chief municipal agency which addresses all topics and questions dealing with public health. Departing from the approach of "health in all policies," DHHS designs, implements, and monitors and evaluates programming and community engagement on everything from food and nutrition, maintaining clean air and water, and health inspection. DHHS pledges to help Jersey City residents lead healthier lives and reduce the negative impacts of non-communicable diseases such as obesity and diabetes, as well as focusing on reducing risks arising from pandemics, such as COVID-19.

**Project Partner(s):**

Sustainable Jersey City: Debra Italiano, Abhilasha Meshram, Ron Petherbridge  
Jersey City Housing Authority: Trina Hinton, Stephan Cea  
Rutgers EOHSI/CEED: Dr. Robert Laumbach, Kerry Butch  
Gensler Research Institute: Christine Barber, Roger Smith, John Ferns  
Greenville Neighborhood Alliance: Sandra Lovely  
NJ Department of Environmental Protection: Luis Lim, Director of Air Monitoring

**Project Location:** Lafayette, Greenville Neighborhoods in Jersey City, NJ (07304, 07305)

**Air Pollutant Scope:** Ozone and NO<sub>2</sub> (precursor) and PM<sub>2.5</sub>

**Budget Summary:**

**EPA Funding Requested:**                      **Total Project Cost:**

\$465,249.93                                      \$478,958.91

**Project Period:** November 1, 2022 - November 30, 2025

**Short Project Description (one to three sentences):** Monitor pollutants (three year period) of concern with respiratory illness in two environmental justice communities to quantify local maximum short- and long-term O<sub>3</sub> and PM<sub>2.5</sub> exposure levels. Air quality data will be analyzed against health-based air quality standards and disseminated to citizens to educate them on exposure, health consequences and personal and collective community actions to reduce exposure, including identifying community and green infrastructure resources. Community health organizations, including local government, the housing authority and community groups will be actively engaged in developing policy and programmatic solutions to address adverse air quality and its impacts on health in Jersey City's underserved communities.

## **Section 1: Project Summary and Approach**

### **A. Overall Project (20 possible points)**

This project will be designed and implemented to collect ambient air monitoring data in the Jersey City's Lafayette and Greenville neighborhoods. The pollutants of concern to be monitored include Ozone (O<sub>3</sub>), Nitrogen dioxide (NO<sub>2</sub>) and respirable particulates (PM<sub>2.5</sub>), since these pollutants are known to cause respiratory illness in vulnerable populations (e.g. elderly, youth). (see Sections 1B and 3 on community selection criteria). Final air monitoring sites selected for this study will be where the impacts intersect from: a) heat island effects (SJC 2021 study), b) population vulnerability (Census Tract data), c) elevated air pollution concentrations (EPA EJSCREEN modeling for O<sub>3</sub> and PM<sub>2.5</sub>), and d) increased incidence, morbidity and mortality occurred during the COVID-19 pandemic.

Monitoring equipment will be purchased and installed within three months of contract award (taking into account delivery and site preparation time). We propose three monitoring locations to be installed within three Jersey City Housing Authority (JCHA) facilities in or in proximity to the Lafayette and Greenville EJ communities. Final monitoring locations will be selected based on a Community Steering Committee (CSC) consisting of community leaders and project partners (see Section 1C). The final air monitoring locations will be based on the ability to provide security, electricity, Wi-Fi, and personnel willing to assist with the installation, maintenance, inspection, and handling of equipment and data. Two of the proposed sites will be permanently located within the housing complexes with one site relocated to assess potential hotspots identified during the study, including possible indoor locations in residences without air conditioning during the summer. The purpose of a third monitor is to collect additional data based on the initial years findings, to enhance community educational training. These data will also be used to demonstrate to community members the contributions of indoor and outdoor air ozone levels to total personal ozone exposure, and the significance of limiting outdoor strenuous activity, closing windows, etc. on high ozone days, especially among vulnerable groups.

Jersey City lies downwind to the east of the Newark-Elizabeth Seaport, Liberty International Airport, and the dense network of highways and industrial sources in the greater Newark area. Air pollutants arising from upwind sources are a concern among Jersey City's community members. One of the proposed air monitoring sites will be closer to the western city border to identify the effects of ozone precursors from neighboring Newark and Elizabeth industrial sources and highway traffic sources along the western border. A second site will be located further from traffic and industrial sources and closer to higher density residential units where heating fuel combustion emissions are more prevalent. These two locations are designed to identify O<sub>3</sub> variegations across the city, due to the complex nature of the photochemical processes in the air. Combined with meteorological data (Newark Airport), concentrations of ozone, PM, and NO<sub>x</sub> at these sites will inform how the VOC and NO<sub>x</sub> precursors emitted by the sources outlined above, affect O<sub>3</sub> formation and correlate to greater public health risks as we move into a post-Covid environment. Prior to the EPA grant award (summer 2022), the project team will initiate the Community Engagement Plan (CEP)(see Section 2B) to alert communities of this EPA program, provide outreach and education on environmental health issues identified during Sustainable Jersey City's 2020-21 urban heat island (UHI)/air quality campaigns, and to find local champions interested in forming a Community Steering Committee (CSC). Community meetings will also be held for bi-directional communication to solicit information on residents' environmental health concerns. The next three months will be used to formulate the componentry of the CSC and to set up objectives, communication strategies, and committee goals. A major component of the CEP will be a Leadership Training Program to empower community leaders to self advocate for policy change that includes effective measures/solutions based on community input. To ensure air quality data meets EPA quality assurance guidelines for citizen led data collection, the quality assurance project plan (QAPP) (see attachment) will be updated and submitted to the EPA and NJDEP Division of Air Monitoring for final approval, including establishing a formal agreement with the NJDEP on

a final mechanism to quantify data accuracy. NJDEP has agreed to assist Jersey City with technical assistance as part of the QAPP (see email, LOS attachment).

To build capacity and empower residents to take active roles in the project, residents of the Lafayette and Greenville neighborhoods will be hired and trained to oversee and conduct inspection and maintenance of the monitoring equipment. These members will participate in up to eight hours of capacity training on setting up and operating the equipment, inspecting equipment for proper operation, performing routine maintenance, identifying air quality episodes, and other quality assurance measures, including recordkeeping requirements. If air quality episodes are identified, these will be researched for a cause (survey residents, visible site inspections, or current news events). Training will include vendor training and hands-on practice with the monitoring equipment, including post-training assessment. SJC will oversee the installation and startup of data collection along with assistance as needed from Rutgers and vendor personnel to troubleshoot any siting or operational problems.

Ambient Air Quality data will be collected on a continuous basis over a three-year period. Minimum data collection requirements are outlined in the QAPP, including seasonal requirements to assess the effect on ozone from temperature (sunshine and cloud cover), predominant wind patterns, and changes in source emissions (e.g. residential fuel fired heating systems and vehicular emissions). Air quality monitoring data will be uploaded in real time to the cloud to be stored on the vendor's platform using their proprietary software, including 1-year of local backup data storage. SJC, Rutgers and field personnel will have remote access to evaluate air quality data. A community dashboard will be setup to allow community data access to assist with planning daily activities or the need to find shelter or other health related resources to reduce their exposure to adverse environmental conditions.

Air quality data will be summarized for comparison to ambient air quality standards (AAQS) or other literature based chronic and acute health thresholds. Data will be reviewed by Rutgers, SJC, and DHHS scientists who will present data to the CSC along with community planning strategies related to the project outcomes (see Section 4). Results of the CEP will be summarized in quarterly progress reports to the EPA that will include explanations of how the program results shaped community education, awareness, and active engagement and, policy or programmatic health or exposure-reduction initiatives developed by the CSC, as well as presentations to government agencies to initiate policy change. Quarterly reports to the EPA and community members will outline any health thresholds exceedances, including potential causes, and information on QAPP adherence. Quarterly progress reports will also include financial information on expenditures and project next steps. The final EPA report will outline all completed project activities, including a financial summary, and a summary of project findings specific to the effectiveness of the CEP in addressing community health and wellbeing, including problems, successes and lessons learned.

Various suggested strategies to be discussed with each community (and/or included in leadership training) to reduce air quality exposure are listed below:

- Create private-public partnerships to provide health related services.
- Improved green corridors and access to nearby parks to reduce health-related illnesses.
- Regional policy development with Hudson County resiliency HUB.
- Empower citizen action to improve their health through community education, including how to best receive health alerts and near-real time heat and air quality data, improve access to health-related resources, including advocating for health related resource policy change for non-functional programs or programs closed due to COVID-19.
- Educate community members about personal exposure reduction strategies including limiting strenuous outdoor activity, closing windows, finding air conditioned cooling centers on high ozone days.

## **B. Project Significance (10 possible points)**



Because of the high incidence of respiratory illness in Jersey City and the proximity to major regional traffic corridors and upwind major industrial air emission sources, we are proposing an ambient air monitoring program that measures ground level ozone (O<sub>3</sub>), Nitrogen dioxide (NO<sub>2</sub>) and fine particulates (PM<sub>2.5</sub>), two known pollutants related to respiratory illness and a precursor to ozone production (Note: NO<sub>2</sub> data will be used to assess changes in O<sub>3</sub> levels, not as a direct human health hazard). In addition, there is only one NO<sub>2</sub> and one PM<sub>2.5</sub> monitoring location and there are no O<sub>3</sub> monitors located anywhere within Jersey City, so there is a need to increase the spatial resolution of air quality measurements within the city to adequately document air quality levels of these pollutants. The impacts of the COVID-19 respiratory pandemic further underscore the need for understanding the correlation of public health and air quality. Jersey City, like all the communities within Hudson County, exceeds the national and state ambient air quality standards (AAQS) for ozone, with five exceedances in 2020 and 12 exceedances in 2021 of the AAQS. Continued exceedances of the ozone standards each year, with the potential for more violations as climate change results in more extreme heat events, makes ozone air pollution a major health concern in New Jersey, which is further intensified in Jersey City underserved communities with higher prevalence of asthma and other lung and heart disease, as well as reduced resilience due to social and economic factors. These vulnerable communities were identified at the census block group level using EPA's EJScreen program and through Sustainable Jersey City's Urban Heat Islands (UHIs, map shown here: <https://www.sustainablejc.org/projects>) and tree canopy census projects (to document lack of tree canopy in various Jersey City communities) conducted in 2020-2021 (see Section 3).

Urban areas generally experience more ozone than other areas, due to more pollution and amplified heat from the urban heat island effect. Because ground level ozone is created by chemical reactions between nitric oxides (NO<sub>x</sub>) and volatile organic compounds (VOCs), Jersey City is at risk from higher ground level ozone, since it lies downwind of Newark, Bayonne, and Elizabeth, which are heavily industrialized cities that are major NO<sub>x</sub>, VOC, and PM emission sources and Jersey City also borders major highways along the transportation corridor to New York City. The relationship between upwind and local sources of ozone precursors is further complicated by 15 major gas fired residential heating systems in Jersey City. Because the NJDEP does not monitor O<sub>3</sub> in Jersey City, adding additional local monitors will help identify these local effects on O<sub>3</sub> formation across the City.

Populations at greatest risk of harm from breathing air containing ozone and particulate matter air pollution include those with asthma and other respiratory diseases. Observational studies strongly indicate that daily exposure to higher concentrations of ozone and PM are associated with increased asthma attacks, hospital admissions, other markers of morbidity, and excess mortality. The COVID-19 pandemic has brought these public health risks to bare. High ozone and PM levels are particularly hazardous for the elderly and the young or those suffering from respiratory illness. Working or exercising outdoors on high ozone days can also exacerbate health related problems. Jersey City leads Hudson County with the highest prevalence of asthma.

## **Section 2 – Community Involvement (25 total possible points from Section V.A of the RFA.**

### **A. Community Partnerships (15 possible points)**

The City of Jersey City's partners on this project are outlined below along with their roles:

Sustainable Jersey City (SJC): a 501(c)(3) organization, is an educational outreach and advocacy organization. SJC has been developing and executing environmental awareness programs and campaigns all over Jersey City since 2011. Their mission is to educate, empower, and activate community stakeholders on health and welfare issues within their communities and to work with municipal agencies to promote environmental justice, advocating with communities on equitable policies that incorporate community based solutions. SJC will provide leadership in the community engagement plan and Leadership Training along with GNA and Rutgers, with primary support through our communication team and technical specialists in air monitoring.

Jersey City Housing Authority (JCHA): has multiple housing units within each of the underserved communities. JCHA staff work with members of their community boards on many local community issues. JCHA has agreed to solicit interest from their board members in establishing a CSC under this project. JCHA will provide a staff member on the CSC as a liaison between their community members and government policy makers. JCHA will also provide safe and secure locations to set up the air monitoring equipment within their property boundaries.

Rutgers Environmental Occupational Health Sciences Institute (EOHSI) and Community Education Center for Environmental Exposures and Disease (CEED): will provide their scientific and community engagement expertise to assist with air quality data analysis related to adverse health impacts. Rutgers staff will also assist with the health-related educational programs developed under the community engagement plan. Rutgers EOHSI staff have extensive experience on health impacts from exposure to poor air quality and providing educational programs on respiratory illness and ways to reduce exposure. Rutgers CEED staff are well versed in community engagement programs and they will design and lead the JCEHJ Leadership Training Program that will provide community self-advocacy to making policy/design change.

Greenville Neighborhood Alliance (GNA): Being a partner with the communities of Greenville and Lafayette for many years, GNA will lead the community engagement plan with SJC to ensure effective communication with community members. A key part of meaningful community engagement is to gain the trust of the community members and ensure their understanding of the outcomes of this project and how they can benefit from being involved. GNA brings a history of trust and understanding to the affected communities in this project and their partnership will ensure the communities obtain the maximum benefit from this project.

Gensler Research Institute (GRI): GRI has put together a research team of architects and designers that will work with the project team to provide educational information, design visioning and charrettes. By incorporating design into the process, residents will be able to gain a thorough understanding of how design solutions can help mitigate environmental health issues. GRI will be part of the community engagement sessions to work with local residents on how to identify green infrastructure (GI) design solutions that are specific to their community needs.

## **B. Community Engagement (10 possible points)**

In order to ensure an effective monitoring program, input from the affected communities will be obtained through a Community Engagement Plan (CEP). An outline of the CEP is provided below:

- To be completed prior to EPA grant: Attend up to eight community outreach meetings within each of the underserved communities (SJC CEP). Community environmental health issues of concern will be identified through group discussions and surveys. Survey information will include: a) contact information and availability for follow up meetings, b) health and environmental related concerns, c) history of health related issues, d) primary language, d) interest in participation on a Community Steering Committee (CSC), and specific questions to identify how well community members understand what current health resources are available to them, what health resources they currently use (local, state & federal) and whether the COVID-19 pandemic increased their awareness or usage of available health programs. Informational brochures will be prepared to summarize health findings and to outline the air quality monitoring program and the CEP. Additional meetings will be held in each community to share survey results and to select CSC Community Leaders, and to set up the CSC organizational structure. *Of primary concern is to learn from the community what health issues are of most concern and how these health issues have been increased due to environmental issues and/or COVID-19 (i.e., loss of health insurance, increased mental health concerns, limited access to health related resources that were eliminated or closed during COVID-19).*
- Under EPA Grant: Hold four weekly CSC meetings during the first month and establish an implementation plan to include: where to place monitors, who will be responsible for installation,

routine inspections, data collection, what training is required and a schedule for training, and distribution of data to the community. Stipends will be paid to CSC members, as we acknowledge the value of their work (\$50/meeting);

- After the first month of air monitoring, the CSC will meet monthly throughout the three years to review the air monitoring data and identify potential health risks and proposed strategies for dissemination of findings to the community and the EPA (including community education to assist with understanding of air quality monitoring results);
- Additional meetings will be held quarterly throughout the three-year project to present project status reports to the community and to provide guidance on the development of educational awareness training for annual Jersey City Environmental Health & Justice (JCEHJ) Leadership Training (Ambassador) Program. These will be public meetings.
- Upon completion of the first year of the air monitoring program (or sooner), members of the CSC, including SJC, GNA, Rutgers, Gensler, Jersey City officials, and community members will prepare and present suggested policy and/or program changes and/or health initiatives to all stakeholders;
- Evaluate effectiveness of mitigating measures through ongoing community surveys and ongoing tracking of air quality trends to identify whether air quality is improving, health resources are more accessible, and whether community members feel more knowledgeable about how to identify and reduce their personal exposure.

The cornerstone of the community engagement program will be the development of a JCEHJ Ambassador Program to train a diverse group of ten Community Leaders from the CSC, as well as two students. The sessions will include skill-building sessions, substantive information on current environmental topics and the opportunity to network with each other as well as community environmental health leaders from around the state and the country. These Ambassadors will educate their neighbors, friends, and affiliated organizational relationships on learned knowledge and empowerment strategies to self-advocate for potential solutions that could address their neighborhood environmental health issues. Each selected Ambassador will be given a stipend of up to \$1,000 as well as be given the opportunity to participate in an internship program. Sessions will be facilitated by paid thought leaders, academics, environmentalists, public officials, etc., currently working in environmental health. Annual training for the 3-year program, starting in the Winter of 2023 (repeated in 2024, 2025) will be provided. Training will include five (mandatory attendance) Saturday sessions, beginning with a local retreat at community-based locations (to be expanded into other communities throughout Jersey City during the 2nd and 3rd year. Ambassadors who graduate from the event will be celebrated at a public community event. Rutgers CEED personnel will work closely with SJC and DHHS to deliver a successful program with the following deliverables: 1) provide hands-on training to strengthen and apply leadership capacity in the arena of environmental health and justice; 2) provide opportunities for Jersey City community organizations and faith-based institutions to enhance their participation in the arena of environmental health and justice; 3) provide participants with substantive information to understand and address their community environmental public health; and, 4) build communication skills to expand participants' capacity to educate and motivate the public using social research study protocols. After annual training, participants will complete an evaluation survey to assess the session on presentation, information, motivation, and give an overall rating of the trainers, program content and effectiveness in elevating civic participation to benefit their community.

### **Section 3 – Environmental Justice and Underserved Communities (10 total points)**

The proposed air quality monitors will be located along corridors within or proximal to the most vulnerable communities in the Lafayette and Greenville neighborhoods, which were selected based on partner knowledge of the city's communities, and EPA EJ Screen and other US Census data, including block group-level data. These community block groups are included among the "overburdened communities"

identified by the NJDEP to address environmental justice. In 2018 Jersey City's population consisted of 35.4% White, 24% Black, 28.8% Hispanic/Latino, and 25% Asian with a per capita income of \$36,453, and median household income of \$62,739, while 18.7% of residents lived below the poverty line (above the U.S. national average). Jersey City has the highest recorded adult asthma rates in Hudson County, with the majority of respiratory illnesses concentrated in lower income environmental justice (EJ) neighborhoods.

Over the last two years, SJC has been conducting studies to identify areas within Jersey City where environmental exposure has resulted in impacts to the health and welfare of its citizens. Two key environmental projects in 2020-2021 involved identifying communities within Jersey City where the Tree Canopy was inadequate and/or deteriorating to unhealthy levels and identifying regions affected by Urban Heat Islands (UHI) and adverse Air Quality, including Newark and Elizabeth. As part of the UHI study, heat vulnerability index (HVI) maps were created to identify at risk communities based on six social vulnerability categories: limited English, age, poverty, asthma, race, and disability. The HVI maps were overlaid with EPA EJSCREEN modeling data for O<sub>3</sub> and PM<sub>2.5</sub> and heat index data from the UHI study. The results of the study (map linked here: <https://tinyurl.com/2p8chwyr>) shows the most vulnerable populations in the EJ communities of Lafayette and Greenville (dark purple zones on map), which were selected for this EPA study.

From a recent review of the JCHA residential housing units, SJC identified that several of the lower income units did not include air conditioning due to the high cost of their operation. This can leave residents exposed to both elevated heat and air pollution levels if they keep their windows open during hot summer days. Lack of income also impacts residents who cannot afford health care, computers, or Wi-Fi access, limiting their ability to receive health information via the internet or cell phone access. With a high racial diversity, language barriers can also limit access to health alerts or warning systems.

Partnering with the Greenville Neighborhood Alliance will provide direct access to active community leaders within these EJ communities that have developed community trust and can put together a strong committee of active members that are willing to work towards change that benefits their community.

#### ***Section 4 – Environmental Results—Outcomes, Outputs, Performance Measures (20 points)***

##### ***A. Expected Project Outputs and Outcomes (10 possible points)***

Activity	Outputs (s=short term, l=long term)	Outcomes (s=short term, l=long term)
Community Engagement, Steering Committee Development, Developing Strategies/Solutions	1) Develop infographics or media publications on air quality and related health impacts from exposure (s) 2) Compile community health history, (s) 3) Identify community leaders, (s) 4) Identify health issues or problems with health system access (l) 5) Identify existing health services (s) 6) Identify limitations in current health services or access (s) 7) Develop partnerships with community leaders and municipal agencies (l)	1) Provide community awareness of the link between their environment and the impact on their health (l) 2) Develop a community steering committee (l) 3) Develop working relationship between community and municipal governing body (l) 4) Develop working health based solutions based on both government and community input (state or local policy changes) (l)

Air Monitoring Program	<ol style="list-style-type: none"> <li>1) Develop a QAPP. (s)</li> <li>2) Collect O<sub>3</sub>, NO<sub>2</sub>, PM<sub>2.5</sub> data for 3-yr period in 3 EJ communities (l)</li> <li>3) Provide access to real time air quality data thru community facing dashboard (l)</li> <li>4) Identify effect of regional air emission sources on ambient air quality and potential routes of exposure (s)</li> </ol>	<ol style="list-style-type: none"> <li>1) Identify severity of air quality levels (l)</li> <li>2) Increased community access to health and air quality data (l)</li> <li>3) Identify the need for community air quality and heat exposure alerts (l)</li> <li>4) Identify potential air quality exposure reduction measures based on environmental conditions and air quality levels (l)</li> </ol>
Community Education and Training	<ol style="list-style-type: none"> <li>1) Develop a community health leadership training program</li> <li>2) Train community members how to write letters to agencies or politicians to effect change in their community</li> <li>3) Train community how to present findings to municipal agencies to effect change in their community</li> <li>4) Inform community members on how to reduce their exposure during environmental episodes (high heat or air quality levels) and to access community health resources</li> </ol>	<ol style="list-style-type: none"> <li>1) Increase community awareness and knowledge of their air quality exposure and its impact to their health</li> <li>2) Provide community with tools on how to self advocate for government policy changes as well as methods they can use to reduce their own exposure</li> <li>3) Provide community with improved access to available health resources</li> </ol>

#### ***B. Performance Measures and Plan (5 possible points)***

Performance measures used to document the success of this program are outlined below:

- Data capture rates for O<sub>3</sub> and PM<sub>2.5</sub> data at each monitoring location will meet QAPP requirements. Co-located sampling equipment data will match the primary sampling data in accordance with limits in the QAPP, documenting proper equipment operation;
- Field sampling technicians will ensure proper air monitoring equipment operation as documented by a passing grade on training program tests and by maintaining completed inspection logs in accordance with the QAPP that document they completed all routine inspection and maintenance in a timely manner;
- Community members make use of air monitoring data and health training to reduce their exposure during high heat and air quality events as identified through follow up community surveys and increased access/use of the community facing dashboard;
- Document community members can self-advocate to reduce their environmental exposure based on 75% of participants scoring greater than 75% on a post training/information session assessment;
- Community members feel empowered to self-advocate for healthier conditions through letters to government officials, attending municipal planning sessions, holding community awareness campaigns as identified through follow up community surveys and copies of communication documents prepared by community members;
- Community members are engaged in the program based on increased attendance at community meetings held by the CSC. Success would be measured by >10% increase in attendance in follow up meetings;
- Community members are engaged in the program based on increased suggestions or information gathered at community meetings held by the CSC. Success would be measured by >10% increase in completion of community surveys and/or more time spent on surveys and/or more detailed information provided by community members in follow up surveys;

- Acknowledgement by city agency officials of community concerns and suggested policy changes through various public formats such as letter of acknowledgement, board meeting minutes, policy changes, other.
- DHHS will commit to these programs as part of their long term commitment to public health and welfare under their annual operating programs funded through future grants.

**C. Timeline and Milestones (5 possible points)**

The following is a project timeline for each of the tasks outlined in the project summary:

Project Task	Start Date	End Date
Dates are based on EPA notification by 9/15/2022 and EPA contract by 11/01/2022. EPA quarterly reports: 4/15/2023, 7/15/2023, 10/15/2023, 1/15/2024 (same dates for 3 yr contract). EPA final report 4/1/2026.		
Initial community outreach meetings/CSC formed (identify pollutants so that equipment can be ordered at time of contract awarded)	6/1/2022	9/1/2022
Compile survey information and prepare brochure or infographic	9/1/2022	10/30/2022
Prepare & Initiate 1st yr. JCEHJ Ambassador Training Program (monthly training for 6 months, + 1 month preparation)	11/1/2022 - 6/15/2023	Repeat annually 3 yrs.
Order air monitoring equipment	11/1/2022	12/1/2022
Prepare Final QAPP & Obtain EPA Approval	11/1/2022	2/1/2023
Hold CSC first four operational meetings	11/15/2022	12/30/2022
Receive & inspect air monitoring equipment and installation for NJDEP co-location (2-1/2 month delivery, 3 month co-locate)	2/15/2023	5/15/2023
Identify site locations/prepare sites for equipment installation	3/15/2023	5/15/2023
Training field technicians for air monitoring equipment operation	4/30/2023	5/15/2023
Install/startup air monitoring equipment at JCHA complexes	6/1/2023	Min of 3 yrs.
Hold CSC monthly meetings to evaluate air monitoring data	7/15/2023	Every month 3 yrs.
CSC quarterly meetings to present project status (*)	10/15/2023	Every quarter 3 yrs.

\* Quarterly CSC meetings will be public meetings to disseminate information on AQ data and status of community actions to improve public health resources.

**Section 5 – Quality Assurance Statement (5 total points)**

(see optional attachment form)

**Section 6 – Programmatic Capability and Past Performance (15 total points)**

**A. Past Performance (5 possible points)**

<b>Funding Program</b>	<b>Purpose of Grant</b>	<b>Amount of Award</b>	<b>Month of Award</b>
NJ Economic Development Authority 21st Century Redevelopment Program	Collect Bank Redevelopment Program	\$50,000.00	September 2021
NJ Department of Community Affairs - Neighborhood Preservation Program (NPP)	Jackson Hill Revitalization	\$125,000.00	September 2021
US Environmental Protection Agency - Local Foods, Local Places	Technical Assistance	Non-Monetary	June 2021
Meals on Wheels America COVID-19 Response Fund	Senior Meals Program	\$20,000.00	April 2020
The Kresge Foundation - Advancing Public Health in Communities	Professional Development	\$30,000.00	October 2020

- 1) DCA Neighborhood Preservation grant program, Jersey City compiled an all-inclusive inventory of existing land usage within the proposed project area, Jackson Hill. The inventory included local economic conditions and infrastructure related to vacant and underutilized structures. Completed identification of sites with greatest development potential.
- 2) EPA Local Foods, Local Places award; City hosted community workshops to convene organizations and businesses from all areas of the food system--from local restaurant owners, corner store owners, and food entrepreneurs, to farmers, food processors, and institutional purchasers as well as local residents. Complete goal to establish a "food value chain." This chain involved bringing together public and private stakeholders to collaborate on food production, aggregation, distribution, consumption, and disposal based on shared values beyond profits. By establishing and implementing this chain, DHHS streamlined and optimized stakeholder resources and built a collaborative framework, establishing sustainable food businesses to revitalize Bergen-Lafayette community.
- 3) Meals on Wheels COVID-19 Response grant, the program delivered groceries and fresh produce, donated prepared meals from local restaurants, meals ready to eat (MRE), and canned goods directly to those economically effected by COVID-19. The program delivered 1,300 grocery bags, 6,000 prepared meals from local businesses, 450 MREs, 200 bags of canned goods to its most vulnerable residents like the elderly, homeless, veterans, unemployed, and low-income families and supported local farmers/businesses.
- 4) Kresge Foundation project; City increased training, certificated staffing, and overall capacity to plan and implement public health interventions, specifically mental health, and violence prevention services, allowing the City to use data to inform needs-based responses to two of the most high-need wards. Completing this transformed the way DHHS understands health challenges, designs interventions, and meets the increasingly varied health needs of the nation's most diverse city.

#### **B. Reporting Requirements (5 possible points)**

DHHS has been fully compliant in fulfilling its obligations as a recipient of all the aforementioned grant funding, including collecting and reporting quarterly performance data. For all its grants, the city ensures that data is collected and stored so that it can be monitored to evaluate and measure performance and support quarterly performance requirements. All reports are submitted in a timely manner with expected outputs/outcomes explained in full detail.

#### **C. Staff Expertise (5 possible points)**

<b>Stacy Lea Flanagan</b> is the Director of Health & Human Services for the City of Jersey City, under Mayor Fulop. As part of her position, Stacey works to strengthen the capacity of public health programming for the nearly 290,000 residents that call Jersey City their home. Stacey has worked with several nonprofit organizations to provide strategic planning, goal setting, and program implementation. Stacey's experience has been with organizations that have focused on youth, poverty alleviation, women, and children.
<b>Debra A. Italiano</b> (SJC President) is the founder of SJC and a Social Enterprise Innovator, LEED AP who brings community leaders and teams together with common insights, goals, and values to accomplish SJC's mission. Prior to founding SJC, Ms. Italiano was the managing principal and owner of Merintra Co., LLC, a strategic business and market development consulting firm after spending 15 years on Wall Street leading large scale change initiatives related to governance and strategy alignment.
<b>Abhilasha Meshram</b> is SJC's communications team lead, providing social media, public relations, email marketing and content development services. Ms. Meshram is a communications professional with over five years of experience in fields ranging from technology, and financial services, to fashion and supply chain. A former engineer, Abhilasha holds a Master's degree in Public Relations and Corporate Communication, as well as Project Management.
<b>Ron Petherbridge</b> provides air quality expertise and educational planning for SJC, including community education and outreach. Mr. Petherbridge has a BS degree in Meteorology and holds a NJ high school science teaching certificate. He taught science at a NJ public high school for 21 years, with 20 years previous experience managing air quality monitoring systems for major utility companies, development projects, and hazardous waste site clean projects as well as indoor air quality programs for asbestos abatement and air toxic exposure.
<b>Dr. Robert Laumbach</b> is Rutgers Occupational and Environmental Medicine specialist, also board-certified in Family Practice, and a Certified Industrial Hygienist, who's work focuses on transdisciplinary integration of biologically and epidemiologically based evidence to improve clinical and public health practice. His work focuses on community-engaged research to provide a scientific evidence basis for policy improvements in populations and communities that are disproportionately impacted by environmental chemical exposures and health risks.
<b>Kerry Butch</b> has a BA in Sociology, is the Rutgers CEED, Community Outreach and Engagement Core Coordinator for the NIEHS Research & Environmental Health Sciences Center. She has extensive experience in Community Leadership Training. She has written many articles, coordinated TV debates, setup education and convention forums, produced film documentaries, and Leadership Training Programs all around environmental issues throughout NJ.

## Section 7 – Budget (20 total possible points)

DHHS will be the lead agency responsible for all financial expenditures under this project. The activities are broken down into two components: Table 1 - A) Community Engagement and B) Table 2 - Air Monitoring. The Community Engagement will be managed by Deborah Italiano of SJC who will direct all work performed by each of the project partners and will provide bi-monthly status reports to Stacey Flanagan (or her subordinate) of DHHS, unless more frequent notice is required. SJC will manage the work of each of the project partners to ensure work is done on budget and within required time frames. A leader will be designated from each partner's group with bi-monthly (more frequent if necessary) mandatory meetings via Zoom to track project status and budget expenditures. To control costs, all financial decisions will be authorized by DHHS if a change of scope is required. The fee structure for each partner (by title) is Provided in the budget table below. Expenses for the Leadership Training Program have been separately identified. All equipment related costs are specific to the air monitoring program. Stipends paid to community volunteers (CSC members, Ambassador trainees, JCEHJ Trainers, field techs) are all outlined under "Other". Community Engagement has two major components: 1) community outreach meetings/CSC development and planning and 2) JCEHJ Leadership Training Program. Public meetings conducted for initial outreach and information gathering as well as on-going CSC planning and



communication meetings are budgeted separately from the Leadership Training. Kerry Butch will be responsible for managing the Leadership Training, and will report back to Ms. Italiano during bi-monthly calls. The Air Monitoring Program will be managed by Ron Petherbridge of SJC who will specify and order all equipment, ensure proper installation, and direct all field personnel (three trained community members to be paid stipend \$20/hr) during the operation of and location of the equipment. Dr. Robert Laumbach will be responsible for review and analysis of air monitoring data and will utilize a college graduate student to conduct bi-weekly inspections of the data via cloud to identify air quality episodes and or patterns of interest, including potential source emissions activity or data alarms indicating excessive equipment drift or malfunction. He will also prepare data reports for the CSC along with potential solutions to air quality adverse exposure episodes. Dr. Laumbach will work directly with Mr. Petherbridge to identify any equipment issues as oversight of field technicians when air quality episodes or equipment alerts are detected by his lab assistant. Mr. Petherbridge will be responsible for equipment operation in accordance with the QAPP, including all communication with the NJDEP, EPA, or equipment vendors.

Table 1: Community Engagement/Leadership Training Budget	EPA Funding	In Kind Services	Table 2: Air Monitoring Budget	EPA Funding	In Kind Services
<b>Personnel</b>			<b>Personnel</b>		
DHHS Program Manager @\$80,000/yr x 2.0% x 3 yrs x 3% inflation/yr	\$4,845		DHHS Program Manager @\$80,000/yr x .5% x 3 yrs x 3% inflation/yr	\$1,236	
DHHS CSC Participant @\$65,000/yr x 3% x 3 yrs x 3% inflation/yr	\$6,027		JCHA Program Manager @\$80,000/yr x 0.5% x 3 yrs x 3% inflation/yr	\$1,236	
JCHA Program Manager @\$80,000/yr x 1.5% x 3 yrs x 3% inflation/yr	\$3,709		SJC Executive Director @\$30,000/yr x 5% x 3 yrs x 3% inflation/yr	\$12,364	
JCHA CSC Participant @\$65,000/yr x 2% x 3 yrs x 2% inflation/yr	\$4,019		SJC Air Quality Specialist @\$50,000/yr x 20% x 3 yrs x 3% inflation/yr	\$30,909	
SJC Executive Director @\$80,000/yr x 15% x 3 yrs x 3% inflation/yr	\$37,591		Rutgers Env. Health Specialist @\$181,000 x 1.5% x 3 yrs x 3% inf/yr	\$8,392	
SJC Communications Manager @\$65,000/yr x 20% x 3 yrs x 3% inflation/yr	\$40,182		Rutgers Lab Data Analyst @\$33,000 x 10% x 3 yrs x 3% inflation/yr	\$10,200	
SJC Education/Communications Asst @\$45,000 x 20% x 3 yrs x 3% inf/yr	\$27,819		<b>Total Personnel</b>	\$64,337	
Rutgers Env. Health Specialist @\$181,000 x 1% x 3 yrs x 3% inf/yr	\$5,595		Fringe Benefits (health ins,pension, soc sec, sick/personal/vacation hrs)		
Rutgers Comm Education/Engagement Prgrm Dir @\$67,600x10%x3yrsx3%inf	\$20,884		Rutgers Full Time Staff Salary x project hrs x 61.74%	\$5,181	
GMA Community Prog Mgr @\$90,000 x 3% x 3 yrs x 3% inflation/yr	\$3,709		<b>Total Fringe</b>	\$5,181	
GRI Communications Team (in-kind services)		\$10,000	Travel		
<b>Total Personnel</b>	\$153,288		Rutgers Staff for 4 meetings/yr x 3 yrs x 1 staff x 90 mi x \$0.57/mi	\$616	
Fringe Benefits (health ins,pension, soc sec, sick/personal/vacation hrs)			<b>Total Travel</b>	\$616	
Rutgers Full Time Staff Salary x project hrs x 61.74%	\$15,354		Monitoring Equipment (3 Locations = O3, PM2.5, NOx)		
<b>Total Fringe</b>	\$16,364		O3, NOx, PM2.5 micro AQ monitoring stations, 3 units x 3 yrs	\$12,238	
Travel			Installation mounts and hardware (\$500 x 3 sites x 3 for relocation sites)	\$4,500	
Rutgers Staff for 10 meetings/yr x 3 yrs x 1 staff x 90 mi x \$0.57/mi	\$1,539		Software License for uploading AQ data to cloud (3 years)	\$5,400	
<b>Total Travel</b>	\$1,539		Wifi Connection to Cloud, 3 units x \$20 /month for 3 yrs + \$90 SIM card	\$2,250	
Supplies			Public Facing Dashboard for data reporting	\$18,125	
Leadership Training notebooks, pens, water(\$150 x 5 sessions x 3 yrs)	\$2,250		Notebook computers for remote data access \$1,000 x 3 field techs	\$3,000	
<b>Total Supplies</b>	\$2,250		<b>Total Monitoring Equipment (3 locations as above)</b>	\$45,563	
Contractual			Supplies		
Hots/cloff meet) Transportation(5 sessions) Meeting Room graduation x 3yrs	\$12,600		Replacement sensors & Expendables (3 years)	\$5,750	
<b>Total Contractual</b>	\$12,600		Equipment Installation Materials (for relocation)	\$1,000	
Other			<b>Total Supplies</b>	\$6,750	
Training (\$250 x 5 sessions x 3 yrs)	\$6,550	\$6,600	Contractual		
Leadership Training Presenter Stipends (\$300 x 5 sessions x 3 yrs)	\$4,500		Equipment Installation (AC power instal \$3,500 x 3 sites)	\$10,500	
Sessions x 3 yrs)	\$36,000		Equipment Vendor Training & Installation Assistance	\$1,750	
Lunch (\$20/session x 5 sessions x 3 yrs)	\$3,000		<b>Total Contractual</b>	\$12,250	
mths x 3 yrs + 12 quarterly meetings	\$18,512		Other		
<b>Total Other Cost</b>	\$73,062		32 mths	\$15,360	
Indirect Costs			Equipment Shipping & Handling (initial purchase annual expendables)	\$1,400	
Rutgers Project Cost x 57% (rent, equipment, office supplies, phone, etc)	\$25,298		Annual Data Validation & Calibration for EPA Quality Assurance	\$10,900	
SJC technology support platforms (software, equipment, website maintenance)	\$6,500		<b>Total Other Cost</b>	\$27,660	
<b>Total Indirect Cost</b>	\$31,798		Indirect Costs		
<b>Total Community Engagement Activity Cost</b>	\$298,292		Rutgers Project Cost x 57% (rent, equipment, office supplies, phone, etc)	\$13,901	
			<b>Total Indirect Cost</b>	\$13,901	
			<b>Total Air Monitoring Activity Cost</b>	\$175,155	
			<b>Total Project Cost (all activities)</b>	\$485,250	